

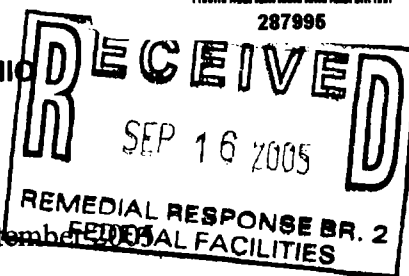


**DEPARTMENT OF THE AIR FORCE  
AIR FORCE MATERIEL COMMAND  
WRIGHT-PATTERSON AIR FORCE BASE OHIO**

EPA Region 5 Records Ctr.



287995



2 September 2005

**MEMORANDUM FOR:**

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Ms. Karen Mason-Smith  
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**FROM:** 88 ABW/CEVO  
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**SUBJECT:** Final Long-Term Monitoring Report: October 2004

Attached are the replacement pages for the Final Long-Term Monitoring (LTM) Report for October 2004, for your files. Please update the Draft version of the report you currently have. If you have any questions please call me at (937) 257-6391.

Treva Bashore  
LTM Project Manager  
Environmental Management Division

**Attachments:**  
LTM Report

**cc:**  
TechLaw Inc. (Ms. Kristi Hogan)

**Final**



**LONG-TERM GROUNDWATER MONITORING**

**REPORT: October 2004**

**LONG-TERM MONITORING PROGRAM**

**Submitted to:**

**Wright-Patterson Air Force Base  
88th Air Base Wing  
Environmental Management Division  
Wright-Patterson Air Force Base, Ohio**

**Prepared by:**

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**September 2, 2005**



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- C1 OU1 Groundwater Analytical Data (Detects Only) – July/October
- C2 OU1 Chain of Custody Records – July/October (*Located on the attached Field Forms CD*)
- C3 Effluent Sample Collection Letter to the City of Fairborn – July/October (*Located on the attached Field Forms CD*)

### **D OU5 Water Level Monitoring Field Logs – May, June, July, August, September and October (*Located on the attached Field Forms CD*)**

### **E OU4 Soil Gas Monitoring Field Logs – July/September (*Located on the attached Field Forms CD*)**

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**I Basewide LTM Chain of Custody Records – October (*Located on the attached Field Forms CD*)**

**J Basewide LTM Semiannual VOCs Analytical Data (Detects Only) – October**

## List of Attachments

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Long-Term Groundwater Monitoring Report: October 2004 WPAFB; Laboratory Analytical Reports on CD

Long-Term Groundwater Monitoring Report: October 2004 WPAFB; Field Forms on CD

## List of Acronyms

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ASTM	American Society for Testing and Materials
bgs	below ground surface
BMP	Basewide Monitoring Plan
BS	Burial Site
BTEX	benzene, toluene, ethylbenzene and total xylene
C	Celsius
CGI	combustible gas indicator
CHP	Central Heating Plant
CofC	chain of custody
COCs	chemicals of concern
1,2-DCA	1,2-Dichloroethane
1,2-DCE	1,2-Dichloroethene
DO	dissolved oxygen
EE/CA	Engineering Evaluation/Cost Analysis
EFDZ	Earthfill Disposal Zone
ES	Engineering-Science, Inc.
EW	extraction well
FAA-A	Further Action Area-A
FAA-B	Further Action Area-B
FP	Field Procedure
FS	Feasibility Study
FTA	Fire Training Area
GBT	gas barrier trench
GLTS	Gravel Lake Tank Site
GWOU	Groundwater Operable Unit
GWTS	groundwater treatment system
IRP	Installation Restoration Program
IT	IT Corporation
LEL	lower explosive limit
LFG	landfill gas
LF	Landfill
LNAPL	light, non-aqueous phase liquid hydrocarbons
LTM	long-term monitoring
MCL	Maximum Contaminant Level
MS/MSD	matrix spike/matrix spike duplicate
MTBE	methyl tertiary-butyl ether
µg/L	micrograms per liter
µS/cm	microSiemens per centimeter
NPDES	National Pollutant Discharge Elimination System
NTU	Nephelometric Turbidity Unit
O&M	Operation and Maintenance
ORP	oxidation reduction potential

## List of Acronyms (continued)

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OU	Operable Unit
PCB	polychlorinated biphenyls
PCE	tetrachloroethene
PID	photoionization detector
POL	petroleum, oil and lubricant
PWP	Project Work Plan
QA	quality assurance
QC	quality control
RI	Remedial Investigation
ROD	Record of Decision
SI	Site Investigation
SP	Spill Site
SPMP	System Performance Monitoring Plan
STL	Severn Trent Laboratories
SVOC	semivolatile organic compounds
TCE	trichloroethene
TVH	total volatile hydrocarbon
STL	Severn Trent Laboratories
USEPA	U.S. Environmental Protection Agency
VOA	volatile organic aromatics
VOC	volatile organic compound
WPAFB	Wright-Patterson Air Force Base

1

1.0

## **1.0 Introduction**

---

This document presents the results of quarterly field activities conducted in July 2004 and quarterly, semiannual, and annual field activities conducted in September and October 2004 under the continuing long-term monitoring (LTM) program at Wright-Patterson Air Force Base (WPAFB), Ohio. The continuing quarterly, semiannual, and annual LTM program field activities consist of the following tasks:

- Annual groundwater monitoring in accordance with the Record of Decision (ROD) at Landfills 8 and 10 [Operable Unit (OU) 1];
- Quarterly soil gas, groundwater level, and effluent monitoring at OU1.
- Monthly hydraulic containment monitoring at Landfill 5 (OU5);
- Quarterly Operation and Maintenance (O&M) landfill gas monitoring at Landfills 3, 4, 6, and 7 (OU4);
- Semiannual monitoring in accordance with the ROD at Spill Sites 2, 3, and 10 (OU2);
- Semiannual volatile organic compound (VOC) monitoring in accordance with the continued Basewide LTM program for groundwater removal actions.

Each chapter contains a discussion of the various tasks, which include methods of data collection, variances from approved procedures based on field conditions, sampling results, and an evaluation of the results.

Each of the above tasks is presented in a unique chapter that can be extracted from the compendium. With the exception of OU1 and OU2, which have separate RODs, all groundwater monitoring tasks are ultimately evaluated together under the Groundwater Operable Unit (GWOU) for all of WPAFB (Chapter 7.0). OUs 1 and 2 are discussed individually in Chapters 2 and 5, respectively. The GWOU was established under the Basewide Monitoring Plan (BMP) to provide a comprehensive method for monitoring and evaluating the individual source areas (OUs), plume migration, and the natural attenuation of contaminants.

### **1.1 WPAFB Location**

WPAFB is located in southwestern Ohio, between the cities of Dayton and Fairborn, and occupies portions of Greene and Montgomery Counties (Figure 1-1). WPAFB is subdivided into

three areas: A, B, and C, (Figure 1-2). The installation was formed as a consolidation of two bases: Wright Field (Area B) and Patterson Field (Areas A and C). Area B is separated from Areas A and C by State Route 444 and the ConRail Corporation railroad tracks. Areas A and C encompass approximately 5,711 acres and Area B encompasses approximately 2,800 acres.

## **1.2 WPAFB GWOU Background Information**

WPAFB has grouped all confirmed or suspected sites requiring investigation and characterization into 11 geographically based source operable units (designated OUs 1 through 11) and one basewide groundwater operable unit (Figures 1-3 and 1-4). Groundwater, surface water, and sediment contaminants from each of the 11 OUs and groundwater contaminants that are not attributable to a known source on WPAFB are combined to form the GWOU for remedial activities under the BMP. Because of groundwater movement patterns under WPAFB, contaminants from one source area may be transported through others, commingling contaminants and finally moving into remote portions of the Base. The BMP was established to evaluate contaminant movement, assess risks posed to human health and the environment by exposure to the contaminants, and design a remedy for groundwater throughout the Base (IT Corporation [IT], 1999a).

The GWOU is defined by three boundaries: an upper boundary, a lower boundary, and horizontal boundaries. The upper boundary consists of the water table surface, including the vertical zone of seasonal water table fluctuations. The lower boundary is the first occurrence of bedrock, which is at the base of the alluvial aquifer. The horizontal boundaries are the confines of WPAFB and also include the surrounding areas affected by off-site migration of contaminants from WPAFB.

## **1.3 Purpose and Objectives**

The LTM program tasks are performed in accordance with the individual sampling programs that were previously being conducted concurrently at WPAFB. These sampling programs are summarized in the *Long-Term Groundwater Monitoring Report: October 1998* (IT, 1999b). Field activities were conducted in accordance with the criteria specified in the Installation Restoration Program (IRP), Project Work Plan for Remedial Investigations and Feasibility Studies at WPAFB (Engineering Science [ES], 1990).



Data collected as part of the LTM will form a data set to be used to evaluate trends in the organic and inorganic chemicals of concern (COCs) in groundwater and to evaluate the progress of ongoing remedial actions throughout WPAFB. Specific objectives of the LTM program are:

- Provide data to monitor past detections of inorganic COCs above the Maximum Contaminant Levels (MCLs) at WPAFB that do not appear to form congruent contaminant plumes.
- Provide data to monitor areas of WPAFB where groundwater concentrations of VOCs exceed MCLs.
- Provide monitoring data in accordance with the recommended action for Further Action Area-B (FAA-B) [vinyl chloride contaminated site adjacent to the drum storage facility at Building 92, Area B, and east of Spill Site (SP) 11] to evaluate current conditions. Sampling will be conducted annually.
- Provide monitoring data to verify the progress of ongoing remedial efforts in accordance with the RODs for OU1 and OU2.
- Provide methane monitoring at OU4 to evaluate the progress of the selected remedy in accordance with the *OU4 Landfill Gas Monitoring Technical Memorandum* (CH2M HILL, 1998).
- Provide monthly groundwater elevations and semiannual groundwater quality data for monitoring downgradient of OU5 [Further Action Area-A (FAA-A)] to evaluate the horizontal and vertical groundwater flow and capture zones and, ultimately, the effectiveness of the extraction system.

#### **1.4 Basewide Monitoring Program**

Numerous groundwater contamination investigations have been undertaken at WPAFB. A synopsis of environmental studies performed on the Base as a whole and those performed on specific OUs can be found in Table 2-1 of the *Final Engineering Evaluation/Cost Analysis* (EE/CA) Groundwater Basewide Monitoring Program (IT, 1999a). Expanded discussions of the results of these studies are provided in other documents that delineate the extent of contamination at the different OUs. As such, the COC sources and likely pathways for contaminant migration are well defined.

The EE/CA was prepared to determine groundwater remedial actions under the BMP. It evaluated reasonable remedial action alternatives for the GWOU that would be protective of human health and environment by mitigating groundwater contamination. Based on a

comparative evaluation of the alternatives presented in the EE/CA and/or GWOU ROD, the following actions were recommended:

- Area C, FAA-A: Continue current groundwater treatment, discharge to surface water, monitoring, and restrictive regulations. Provide monthly groundwater elevations and semi-annual groundwater quality data for monitoring downgradient of OU5 (FAA-A) to evaluate the horizontal and vertical groundwater flow and capture zones and, ultimately, to evaluate the effectiveness of the extraction system. A treatability study consisting of a chemical oxidation pilot-test at EW-1 was conducted during the spring of 2000.
- Area B, FAA-B: Continue annual groundwater monitoring to monitor for the potential migration of VOC contamination. A treatability study consisting of a chemical oxidation pilot-test was conducted during the fall of 1999. It was determined that the source area was above the water table and could not be remediated with Fenton's Reagent. Soil excavation was recommended. In October 2000, approximately 200 cubic yards of soil, located within the fence line of Facility 92, was removed. Additional long-term monitoring was implemented to observe the effects of the remedial action.

In addition to the alternatives presented above for the two further action areas (FAA-A and FAA-B), long-term monitoring was recommended for other areas on Base, including those areas that:

- Have existing remedies in place (OU1 and OU2);
- Exceed MCLs for organic COCs, but do not exceed the target risk range;
- Exceed a cumulative cancer risk of  $1 \times 10^{-4}$  or a hazard index of 1 for organic COCs, but do not exceed MCLs; and
- Exceed MCLs and background concentrations for inorganic COCs
- Site Investigation (SI) areas where LTM has been recommended (former Buildings 79 and 95 Complex, and former Building 59).

The LTM program is being conducted in these areas to: (1) confirm that the conclusions drawn in the EE/CA are valid; (2) ensure that appropriate actions can be implemented if monitoring indicates that organic COCs are migrating; and (3) confirm that the stated remedial action objectives are met.

The Baseline sampling round for the Basewide LTM was conducted in April 1998 under the BMP and is considered the GWOU baseline data set for VOCs and metals. Data from

subsequent sampling rounds has been compared to the LTM Baseline data to establish trends. Data from the Baseline sampling event was presented in the *Final Long-Term Groundwater Monitoring Baseline Report, Basewide Monitoring Program* (IT, 1999c). Wells selected for Baseline sampling were recommended in the EE/CA, with the exception of the wells that were being monitored under existing sampling programs associated with remedial actions in OU1, OU2, and OU5.

### **1.5 Organization of the LTM October 2004 Report**

Monitoring procedures, results, and data evaluation for the July, and September/October 2004 Basewide LTM program monitoring events are presented in the following chapters.

- Chapter 2 describes the quarterly and annual sampling and monitoring conducted in accordance with the ROD for Landfills 8 and 10 (OU1). Activities conducted as part of the OU1 ROD requirements include quarterly treatment system effluent sampling, quarterly landfill gas and hydraulic containment monitoring, and annual monitoring well sampling. Chapter 2 also presents a summary of the sampling results, a discussion of the landfill gas monitoring results, a description of the hydraulic containment monitoring results, and an evaluation of the performance of the OU1 remediation system.
- Chapter 3 describes the hydraulic containment monitoring being conducted at OU5. Monthly groundwater level elevations provide a continuous evaluation of the extraction system and the hydraulic flow conditions at OU5.
- Chapter 4 describes the landfill gas monitoring activities at OU4, including a summary of the scope of work and site description/history, monitoring procedures, and monitoring results.
- Chapter 5 presents the field activities and the analytical results from the semi-annual sampling conducted at OU2 under the ROD for Spill Sites 2, 3, and 10. Field activities consisted of soil gas monitoring and groundwater sampling. Also presented is an overview of the natural attenuation of petroleum hydrocarbons being monitored at OU2.
- Chapter 6 describes the Basewide LTM groundwater monitoring activities. Included in this section is a presentation of the semiannual groundwater sampling results.
- Chapter 7 presents an evaluation of the Basewide LTM groundwater analytical results.
- Chapter 8 provides a list of the references used throughout the document.

- Appendix A presents summaries of OU1, OU2, LTM field procedures, and brief site histories for areas where previous site investigations occurred.
- Appendices B through J present field forms or analytical data.

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2.0

## **2.0 Record of Decision (ROD) Sampling at Landfills 8 and 10 (OU1)**

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Chapter 2 presents the results of the quarterly monitoring and annual remedial action groundwater sampling for OU1 at WPAFB, Ohio, conducted during the reporting period of July through October 2004. Quarterly monitoring was conducted in July and September 2004 and remedial action groundwater sampling was conducted in October 2004. In addition, quarterly sampling of the leachate collection system discharge line was conducted in July and October 2004, to comply with the conditions specified in the City of Fairborn sewer discharge permit.

### **2.1 Introduction**

The LTM program at OU1 was initiated in accordance with the *Record of Decision for Source Control Operable Unit - Landfills 8 and 10* (LFs 8 and 10) (WPAFB, 1993), the *OU1 Final Operations and Maintenance (O&M) Plan* (Kelchner, 1997) and the Amendment to the OU1 System Performance Monitoring Plan (SPMP) (IT, 2000a). The information presented in this report is the result of fieldwork conducted as part of the O&M and Performance Monitoring Plans. A description of LFs 8 and 10 is summarized in the Final Long-Term Groundwater Monitoring Report: October 1998 (IT, 1999b); the landfill site vicinity is depicted in Figure 2-1. The sampling frequency and the schedule for OU1 wells are defined in Table A1-1 of Appendix A1. Figures 2-2 and 2-3 present the locations of the selected perimeter monitoring wells at LFs 8 and 10, respectively.

The OU1 monitoring program includes quarterly monitoring of landfill gas (methane) and groundwater levels, annual compliance groundwater sampling and annual remedial action groundwater sampling. The objectives of the OU1 monitoring programs are presented in Appendix A2. Overall, data collected as part of the OU1 LTM program will form a data set to be used to evaluate the progress of the ongoing remedial efforts at OU1 and determine whether the selected remedy identified in the ROD is protective of human health and the environment. In addition, to further evaluate the elevated VOC concentrations detected in the soil vapor sample collected from soil vapor monitoring point LF08-MP013 (Figure 2-4), groundwater samples have been collected from this point semiannually since May 2002. However, during the October 2004 event, LF08-MP013 was dry and a groundwater sample could not be collected.

### **2.2 OU1 Remedial Action Groundwater Sampling**

The annual OU1 remedial action groundwater sampling event was conducted from October 4 through October 20, 2004. Samples were collected and analyzed for VOCs, semivolatile organic

compounds (SVOCs), pesticides/polychlorinated biphenyls (PCBs), total metals, dioxin/furans, ammonia and cyanide in accordance with the procedures presented in Section 6.3.2 of the OU1 Final O&M Plan (Kelchner, 1997). Analytical parameters, collection frequency, and sample handling criteria for the OU1 sampling events are presented in Table A2-1 of Appendix A2. Groundwater sample handling and management, field quality assurance samples, and analytical methods are also presented in Appendix A2.

### ***2.2.1 Groundwater Sampling Procedures***

The majority of monitoring wells were purged and sampled with dedicated bladder (pneumatic) pumps using the micropurge method. Procedures and sampling criteria for the micropurge method are described in detail in Appendix A2. Wells with insufficient water columns for dedicated pumps were hand bailed with a disposable Teflon<sup>®</sup> bailer, in accordance with Field Procedure (FP) 5-6 and Section 6.3.1 of the OU1 Final O&M Plan (Kelchner, 1997). However, monitoring wells 01-DM-102S-M, LF10-MW07B, LF10-MW102 and LF10-MW104 were dry and, therefore, no samples were collected during the October 2004 sampling event.

During purging, groundwater quality was considered representative of the surrounding geologic formation when the field parameters had stabilized. The monitoring well purge logs for sample collection are presented in Appendix B1 on the enclosed Field Forms CD. Field parameters measured just prior to sampling are presented in Table 2-1.

### ***2.3 OU1 Landfill Gas Monitoring***

The permanent OU1 landfill gas monitoring probes, punchbar monitoring points, and LF10 gas barrier trench (GBT) are monitored quarterly in accordance with the OU1 Source Control ROD (WPAFB, 1993). Landfill gas monitoring is performed to determine the effectiveness of the vapor collection system in establishing a capture zone that extends outside the landfill boundaries. The existing landfill gas monitoring probes and permanent punchbar locations at LFs 8 and 10 are located within the surrounding Base residential property lines to monitor for potentially migrating landfill gas (Figures 2-4 and 2-5, respectively). In addition to the monitoring probes and punchbar locations, the GBT, located east of LF10, is monitored (Figure 2-5). A complete description of the landfill gas monitoring procedures is presented in Appendix A2.

### ***2.4 Effluent Collection System Monitoring***

To comply with the conditions specified in the City of Fairborn sewer discharge permit, one effluent sample per quarter is collected from the discharge line of the effluent collection system.

Sampling procedures, analytical parameters and handling criteria for the leachate collection system discharge line sample are presented in Appendix A2.

In addition to reporting the quarterly effluent analytical data to the City of Fairborn Water Projects Coordinator, this data is also presented semiannually in the April LTM report and this document (Appendix C3).

## ***2.5 OU1 Remedial Action Groundwater Analytical Data***

The following sections summarize the analytical results from the October 2004 Remedial Action Groundwater sampling event at LFs 8 and 10. Table 2-2 presents the laboratory detection limits for the October 2004 sampling event and the compliance levels established in the OU1 Source Control ROD (WPAFB, 1993). The MCLs are also provided for information purposes. Appendix C contains analytical data presented in a “detects only” format and the chain of custody (CofC) records for the OU1 samples. Full analytical reports, including case narratives, are provided on the enclosed Analytical Data CD.

### ***2.5.1 Landfill 8***

Tables 2-3 through 2-7 present the LF8 analytical data summaries for VOCs, SVOCs, dioxins, pesticides/PCBs and, total metals, ammonia and cyanide (inorganics), respectively. In addition to the October 2004 sampling results, data from previous sampling events have been included in the tables for comparison. Figure 2-6 presents the concentrations of the detected organic COCs at LF8 for October 2004, with concentrations exceeding MCLs and/or ROD compliance levels denoted in red. As seen in Figure 2-6 an area of VOC concentrations exceeding the MCL for vinyl chloride exists in the vicinity of the east end of Dupont Way. In addition, benzene and chloroform were also detected in wells at the east end of Dupont Way at concentrations that exceed the ROD compliance levels but are below the MCLs.

Concentrations of the detected inorganic parameters are presented on Figure 2-7. As seen in the figure, arsenic is the only parameter that has been detected in concentrations exceeding a MCL and/or the compliance level. Arsenic has historically been detected above the MCL and/or compliance level at several LF8 locations (Table 2-7).

### ***2.5.2 Landfill 10***

Tables 2-8 through 2-12 present the LF10 analytical data summaries for VOCs, SVOCs, dioxins, pesticides/PCBs, and inorganics, respectively. In addition to the October 2004 analytical results,



data from previous sampling events have also been included. Figure 2-8 presents the concentrations of the detected organic COCs for the October 2004 sampling event at LF10. Concentrations exceeding MCLs and/or ROD compliance levels denoted in red. As seen in Figure 2-8, only wells LF10-MW09B and -MW09C had detected concentrations exceeding the ROD compliance level. Vinyl chloride and benzene were detected at concentrations above the compliance level, but below the MCL.

Concentrations of the detected inorganic parameters are presented on Figure 2-9. As seen in the figure, arsenic is the only parameter that has been detected in concentrations exceeding the MCL and/or ROD compliance level. Arsenic has previously been detected above the MCL and/or ROD compliance level at several LF10 locations (Table-2-12).

### **2.5.3 Effluent Collection System Sample**

Quarterly sampling of the OU1 effluent collection system discharge line was conducted in July and October 2004. Quarterly samples were analyzed for VOCs, total metals, oil and grease, total suspended solids, chemical oxygen demand, and pH. All concentrations of the detected parameters were below City of Fairborn requirements. Analytical results for the July and October 2004 effluent samples are presented in Appendix C1 in “detects only” format and in the City of Fairborn letter report (Appendix C3). Full analytical reports, including case narratives, are provided on the enclosed Analytical Data CD.

## **2.6 OU1 Landfill Gas Monitoring**

The following section presents an overview of the OU1 landfill gas monitoring conducted July 26, 27 and September 30, 2004. Procedures and locations for landfill gas monitoring at LFs 8 and 10 are presented in the SPMP of the OU1 Final O&M Plan (Kelchner, 1997) and in the *Methane Gas Migration Study Summary Report* (ES, 1991). Landfill gas monitoring procedures are also summarized in Appendix A2 of this report. The field logs are presented in Appendix B2.

### **2.6.1 LF8 Landfill Gas Monitoring Results**

LF8 landfill gas monitoring locations are presented on Figure 2-4. LF8 methane/explosive gas concentrations are summarized in Table 2-13. As seen in the table, methane was detected at monitoring point LF08-MP010 during both the July and September 2004 monitoring periods. During the July and September monitoring events, methane was detected at concentrations of 42.3 percent and 43.7 percent by volume, respectively. These concentrations are greater than 100

percent of the lower explosive limit (LEL). As shown on Table 2-13, this location has had a history of elevated methane/explosive gas detections. Sustained readings from the probe after it had vented remained greater than 100 percent of the LEL.

To ensure that methane is not migrating into the adjacent houses or surrounding utility lines, "punchbar" monitoring locations (manually driven, 1/2-inch boreholes) are also monitored quarterly. Punchbar locations are shown on Figure 2-4. As summarized in Table 2-13, methane/explosive gas was not detected at these four locations during this reporting period.

### **2.6.2 LF10 Landfill Gas Monitoring Results**

LF10 landfill gas monitoring locations and the GBT are presented on Figure 2-5. LF10 methane/explosive gas concentrations are summarized in Table 2-14. As seen in the table, methane/explosive gas was detected at the south end of the GBT at LF10 (LF10-GBT0S) during the July and September 2004 monitoring events (Table 2-14). During the July event, methane was detected at a concentration of 1.8 percent by volume, which was 34 percent of the LEL. During the September event, methane was detected at a concentration of 34.8 percent by volume, which was greater than 100 percent of the LEL. At the north end of the GBT at LF10 (LF10-GBT0N) methane was detected during the July event at a concentration of 5.5 percent by volume, which was greater than 100 percent of the LEL. Methane/explosive gas was not detected at LF10-GBT0N during the September event (Table 2-14). Sustained readings were not collected at these locations during the July or September events. Methane/explosive gas was not detected at any other LF10 monitoring locations during the July or September quarterly events.

### **2.7 Water Level Monitoring Objectives and Evaluation**

Quarterly groundwater levels are measured to evaluate the effectiveness of the extraction system in lowering water levels in the vicinity of the landfills and achieving the objectives at each landfill (IT, 1994). OU1 groundwater level monitoring logs for July and September 2004 are presented in Appendix B3. A discussion of the objectives and procedures for water level monitoring and interpretation are presented in Appendix A2. Figures 2-2 and 2-3 show the locations of monitoring and extraction wells used to measure groundwater levels at LF8 and LF10, respectively. The July and September 2004 measured water levels, along with reference point elevations, screen intervals, and total depths for the LF8 and LF10 wells, are provided in Tables 2-15 and 2-16, respectively.

### **2.7.1 Landfill 8 Groundwater Capture Evaluation**

Table 2-15 presents the water level elevations for the LF8 hydraulic containment monitoring well network for July 28 and September 29, 2004. Figure 2-10 illustrates the resultant LF8 groundwater surface elevation contours for July 2004. As seen in Figure 2-10, during the July monitoring event, the groundwater contours do not show curvature around extraction wells EW-0807, EW-0812, and EW-0816 that would indicate flow to the wells. At the southern end of LF8, the cumulative pumping of wells EW-0801, EW-0803, and EW-0805 create flow toward a low grid point between around EW-0803. In addition, the groundwater contours curve around extraction well EW-0810, indicating that capture is occurring in the middle of the eastern boundary. To illustrate the capture zones for each well, particle tracks were created from the July groundwater elevation contours and flow directions (Figure 2-11). The particle tracks represent particles released along the topographic high point of LF8 and indicate the paths they travel through the landfill. The July particle tracks indicate capture is not occurring in the northern portion of the landfill. In the central portion of LF8, well EW-0810 has created a capture zone for upgradient particles, including some particles originating upgradient of wells EW-0807 and EW-0812. The water level in well EW-0807 is lower than in downgradient well LF08-MW102, and is likely providing some capture although not graphically indicated by the particle tracks. At the southern end of LF8 the cumulative pumping of wells EW-0801, EW-0803, and EW-0805 effectively captures particles released directly upgradient and north and south of these extraction wells.

During the September monitoring event, groundwater flow towards the extraction wells continues to occur in the southern portion of LF8 in the vicinity of well EW-0803 and along the eastern boundary near EW-0810 (Figure 2-12). In the northern portion of the landfill, well EW-0816 is now operating efficiently and is creating a capture zone. As seen in Figure 2-13, the particles released along the topographic high point of LF8 are all being captured prior to reaching the eastern boundary. Figure 2-14 presents a cross-section of the eastern boundary of LF8 (Line A-A' on Figure 2-2) and the September 29, 2004 water table surface. As seen in the figure, due to the pump depth in EW-0807 water occurring below the pump is either flowing side-gradient to extraction wells EW-0805 and EW-0810, or is flowing downgradient towards well LF08-MW102. In the vicinity of wells EW-0812 groundwater is predominantly flowing towards well EW-0810 with a small component flowing downgradient from the landfill. Figure 2-14 also indicates that groundwater is not in contact with the LF8 fill material, which reduces the potential for contaminant migration.

### **2.7.2 Landfill 10**

The effectiveness of the LF10 extraction system is evaluated by comparing the elevation of the water table to the elevation of the landfill bottom. The system is achieving the stated goal as long as the water table is below the landfill bottom. Water level elevations for the entire LF10 hydraulic containment monitoring well network for July and September 2004 are presented in Table 2-16 and shown graphically on Figures 2-15 and 2-16, respectively, to illustrate the variable groundwater flow patterns.

To examine the effectiveness of each extraction well, historic water level elevations and the landfill bottom elevation were compared on well hydrographs (Figures 2-17 through 2-26). Landfill bottom elevations were determined from extraction well installation notes and the drilling reference point elevations (Table 2-17). The graphs show the varying fluctuations in water levels from one sampling event to another.

The hydrographs indicate that all extraction wells, except EW-1003, kept their water levels below the bottom of the landfill during this monitoring period. As seen in Figure 2-18, the July and September 2004 water levels were over 16 feet above the bottom of the landfill at EW-1003. WPAFB regularly schedules maintenance and service for the extraction wells. Figure 2-27 is a cross-sectional profile along the long axis of LF10 (Figure 2-3) illustrating the variable landfill bottom and the September 2004 water level elevations throughout the landfill. This profile provides an indication that groundwater levels are below the base of the landfill.

## **2.8 Conclusions**

During the July monitoring period, higher water levels in extraction wells EW-0812 and EW-0816 created a potential for contaminant particles originating in this vicinity to flow off the landfill (Figure 2-11). However, after the July event, successful maintenance was performed on well EW-0816 and as seen in Figure 2-13, particles released upgradient of both EW-0812 and EW-0816 are being captured. In addition, given the hydrogeology at OU1 and the lack of pathways for exposure to groundwater, periodic inconsistencies with hydraulic containment do not pose a threat to human health. The particle track model continues to be refined to determine the contiguous nature of the aquifer. Figure 2-14 shows the September 2004 groundwater level relative to the known landfill material. As seen in the figure, groundwater is not in contact with the bottom of the fill material. This figure also depicts the approximate pump location for most of the LF8 extraction wells. The pumps in wells EW-0807 and EW-0812 appear to be placed at a

higher elevation than the pumps in the surrounding wells. Thus, measured water elevations at these locations are consistently higher than the surrounding extraction wells.

At LF10 the extraction system was maintaining water levels below the landfill bottom at 15 of the 16 extraction well locations during this monitoring period. Extraction well EW-1003 has been difficult to keep in service and continues to be addressed by WPAFB through O&M activities.

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### 3.0 OU5 Monthly Hydraulic Containment Monitoring

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This chapter presents the OU5 hydraulic containment monitoring procedures and results conducted under the LTM program at WPAFB (Figure 3-1) during the reporting period of May through October 2004.

#### 3.1 Introduction

Monthly hydraulic containment monitoring at OU5 was conducted in accordance with the *OU5 System Performance Monitoring Plan (SPMP)* (IT, 1992) and *Final Addendum No. 1 to the Landfill 5 SPMP, Basewide Monitoring Program* (IT, 1999d). The program currently consists of monthly water level monitoring at 42 wells [41 monitoring wells and one extraction well (EW-1)] and five piezometers. Included in the 41 monitoring wells are selected wells owned by the City of Dayton. The five piezometers were installed in June 2003 around Twin and Gravel Lakes to help define the aquifer characteristics near the lakes during the aquifer recovery test at OU5. Figure 3-2 shows the locations of the 42 wells and five piezometers that comprise the current OU5 monitoring well network. The current well network is an expansion of the original monitoring network presented in the initial SPMP (IT, 1992).

The objective of monitoring groundwater levels is to evaluate the effectiveness of the groundwater extraction system in containing contaminated groundwater that may migrate downgradient from LF5 (i.e., maintaining a capture zone to prevent migration of contaminated groundwater beyond the Base boundaries). A more detailed description of OU5 is presented in Appendix A4.

#### 3.2 Water Level Monitoring

The main purpose of extraction well EW-1 is to maintain a capture zone that prevents downgradient migration of contaminated groundwater from the LF5 area. To evaluate the effectiveness of EW-1 in containing groundwater in the vicinity of the site, OU5 groundwater elevations were calculated from water level measurements (Table 3-1) and contoured. OU5 water level monitoring field logs are presented in Appendix D. The field log for the May 2004 monitoring event was lost, therefore, only the levels from the City of Dayton wells are presented on Table 3-1 for the month of May. Based on the measured elevations of the months surrounding May 2004, these values are representative of typical elevations for this period.

Figures 3-3 through 3-7 show the monthly water level contours for the OU5 monitoring wells and extraction well EW-1 during the period of June through October 2004. Due to the limited data

points, the May 2004 water levels were not contoured. Groundwater contours were generated using SURFER (Golden Software, Inc.), a grid-based contouring and three dimensional surface plotting graphics program. A summary of the contouring and groundwater flow modeling procedures is presented in Appendix A4.

### **3.3 Groundwater Capture Zone Analysis**

The primary mechanism of contaminant transport is advection, i.e., a process by which moving groundwater carries dissolved solutes. Thus, understanding the groundwater flow pattern is the first step in an analysis of contaminant transport. The aquifer throughout OU5 is considered to have the same groundwater flow properties regardless of direction (isotropic). In an isotropic aquifer, the flow lines are perpendicular to the equipotential lines (groundwater elevation contours). In addition to the isotropic assumption, the aquifer is also assumed to have the same hydrologic properties throughout the model area (homogeneous).

Water level elevation contours and velocity vectors were generated in SURFER by creating a grid over the model area. The velocity vectors shown on Figures 3-3 through 3-7 indicate that groundwater flow across the eastern portion of LF5 is toward the southwest. The length of a velocity vector is proportional to the actual groundwater velocity. At the western boundary of LF5, groundwater flow is drawn toward EW-1, creating a capture zone.

The relatively long velocity vectors and the closely spaced water level contours upgradient from the extraction well indicate that EW-1 is "pulling" water from beneath the landfill. Downgradient from EW-1, the water level contours are widely spaced and the velocity vectors are relatively short, indicating that EW-1 is inhibiting downgradient groundwater flow.

The monthly capture zones created by EW-1 can also be defined by the particle tracks migrating through the landfill as shown on Figures 3-8 through 3-12. Groundwater particle tracks were created with Environmental Visualization Software (C Tech Development Corp.) using the kriging method to develop a potentiometric surface of groundwater head from the data, followed by a gradient calculation that plots streamlines. Particles were released along the upgradient (east) boundary of LF5 at the beginning of each of the streamlines to illustrate the potential downgradient migration pathlines of contaminants.

EW-1 operated effectively during the months of May and June and throughout the majority of July. Problems with the pump began on July 29 and the system was shut down. During the months of



August and September, problems with EW-1 continued. The system operated intermittently during the month of August while the problems with the system were being addressed. EW-1 was off when water levels were collected on both July 29 and August 31. From September 1 through September 21, EW-1 was off while repairs to the pump were being made. The pump was successfully repaired on September 22 and the system operated efficiently throughout the remainder of the reporting period.

Figures 3-9 and 3-10 depict the particle tracks for July 29 and August 31, respectively. These figures show that when EW-1 operates intermittently, particles along the western portion of LF5 are influenced, but not captured by EW-1. The particle paths converge near EW-1 and then pass through what is normally observed as the capture zone for EW-1. Figure 3-11 shows the particle tracks for September 30, after the system had been operating effectively for eight days. The majority of the particles were captured by EW-1, with the exception of the particles released from the northwestern corner. The June 29 and October 27 water level elevations and particle tracks represent conditions under normal operation for EW-1. As seen in Figures 3-8 and 3-12, groundwater particles released from the entire upgradient perimeter of LF5 are being successfully captured by EW-1. It should be noted that downgradient wells possibly impacted by intermittent capture are monitored regularly. Since the installation of EW-1, most VOC detections at these wells have decreased, confirming that capture is occurring. VOC concentrations at the furthest downgradient wells, MW132S and CW10-055, have remained at relatively steady state levels for the past ten years with only slight variations (see Section 6.0).

### **3.4 OU5 VOCs Removed**

Complete system performance reports on the groundwater treatment system (GWTS) pumping rates, system down time, repairs made, and estimated volume of VOCs removed from the extracted groundwater are compiled monthly for WPAFB by TetraTech, Inc. and presented in the *Monthly Progress Reports, May through October 2004, Landfill 5 Groundwater Treatment System* (TetraTech, 2004). Table 3-2 presents a summary of the monthly water quality analytical results, the total volume of water discharged and quantities of VOCs removed from the extracted groundwater at LF5 by the GWTS between May and October 2004. In summary, the GWTS extracted and treated a total of approximately 82.4 million gallons of water during the reporting period. During this reporting period, the OU5 GWTS removed approximately 29.91 pounds of the listed VOCs, of which approximately 17.74 pounds were TCE. OU5 groundwater quality analytical data, monitored under the LTM program, is presented in Chapter 6.0 and discussed in Chapter 7.0.

### **3.5 Conclusions**

The performance of EW-1 and the groundwater extraction system can be evaluated based on the monthly water levels and the resultant groundwater contours, flow velocity, and particle tracking presented on Figures 3-3 through 3-12. When extraction well EW-1 has been operating consistently at approximately 545 gallons per minute (gpm) or greater over an extended period, a hydrodynamic barrier to contaminant migration is created over the majority of the western boundary of LF5.

Groundwater flow patterns and the resultant particle tracks indicate that EW-1 provided successful capture of potential contaminant particles under normal operating conditions as seen during the June and October events (Figures 3-8 and 3-12). In addition, capture did occur over the majority of the LF5 eastern boundary during the September event. Figure 3-11 indicates that after only one week in operation, particles from the northeastern corner of LF5 were influenced by EW-1, but may not be consistently captured. The prolific aquifer in the OU5 area, comprised of coarse sands and gravel, allows for the water table to recover quickly to static conditions during periods when EW-1 is not pumping. However, even when EW-1 only operates intermittently, particles are still pulled towards EW-1 (Figures 3-9 and 3-10). Potential contaminant migration from LF5 is monitored semiannually in downgradient City of Dayton wells HD-12S, HD-12M, MW131S, MW131M, HD-11, HD-13S and HD13D. Analytical results for these wells are presented and discussed in Chapters 6.0 and 7.0.

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## **4.0 Landfill Gas Monitoring at OU4**

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Chapter 4 presents the results of the landfill gas monitoring at OU4.

### **4.1 Introduction**

Landfill gas monitoring is conducted at OU4 in accordance with the *OU4 Landfill Gas Monitoring Technical Memorandum* (CH2M HILL, 1998) and the *Operation and Maintenance Plan Operable Unit 4 Landfills 3, 4, 6, and 7, and Drum Staging/Disposal Area* (CH2M Hill, 1997). This program includes quarterly monitoring of soil gas at Landfills 3, 4, 6, and 7 (OU4). The landfills are located on the southeastern boundary of Areas A and C, near the intersection of Skeel Avenue and Hebble Creek Road (Figure 4-1). The objective of this monitoring program is to evaluate the migration of landfill gas away from the landfills toward nearby structures. Data collected as part of this monitoring program is used to evaluate trends in the generation of landfill gas and to determine if a landfill gas collection system at OU4 will be necessary. Site background information, including a summary of the types of wastes that were historically disposed of at OU4 and a synopsis of the land use in the surrounding area, is presented in the October 1998 LTM report (IT, 1999b).

The landfill gas (LFG) monitoring network at OU4 consists of eight gas-monitoring wells (LG-1, LG-2, LG-3, LG-6, LG-7, LG-8, LG-9, and LG10) that are located around the perimeters of Landfills 3, 4, 6, and 7, and at locations inside Building 878 (Figure 4-2). Building 877, which has been removed, was a previous monitoring point located adjacent to monitoring point LG-10. This area is now an open lot. Landfill gas measurements were taken on July 26 and September 30, 2004. The field parameters of methane, LEL, carbon dioxide, and oxygen were measured using a LandTec GA-90 infrared gas analyzer.

### **4.2 OU4 Landfill Gas Monitoring Results**

The July and September 2004 and historic (CH2M HILL, 1994) sampling results, including well number, date, and gas concentrations, are presented in Table 4-1. Methane was not detected at any of the monitoring points during the July 2004 event. During the September 2004 monitoring event, methane was only detected at monitoring point LG-10, at a concentration of 2.2 percent by volume, which is equal to 44 percent of the LEL. The OU4 soil gas monitoring field logs are presented in Appendix E on the enclosed Field Forms CD. Methane was not detected at the Building 878 locations during either event.



## 5.0 OU2 Semiannual LTM Groundwater Sampling: Round 15

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The objective of the semiannual LTM program for Spill Sites 2, 3, and 10 within OU2 is to evaluate the effectiveness of in-situ biodegradation and natural attenuation processes on petroleum hydrocarbon contamination in soil and groundwater. All monitoring was completed in accordance with the selected remedy described in the *Record of Decision for Spill Sites 2, 3, and 10 (Operable Unit 2)* (WPAFB, 1997). This chapter presents the results of the October 2004 (Round 15) OU2 ROD sampling event. Additional discussions on the sampling rationale and procedures are presented in Appendix A3.

### 5.1 Introduction

On May 5, 1997, the Baseline evaluation of subsurface hydrocarbon contamination at OU2 was initiated in accordance with the *Draft-Final, Site-Specific Work Plan Addendum No. 2* (IT, 1997a) to the *Final Site-Specific Work Plan For Remedial Design Tasks under the BMP* (IT, 1995b). Field activities for the Baseline event included one round of soil gas and groundwater sampling to provide a reference distribution of petroleum hydrocarbons in the area. Results were reported in the *Final OU2 Baseline Sampling Results Report, Basewide Monitoring Program* (IT, 1999e). The subsequent LTM semiannual sampling rounds were conducted as follows:

- Round 1 conducted October 20 through October 23, 1997 (IT, 1997b)
- Round 2 conducted April 28 and 29, 1998 (IT, 1997c and 1998)
- Round 3 conducted October 15 and 16, 1998 (IT, 1999f)
- Round 4 conducted April 13 and 14, 1999 (IT, 2000b)
- Round 5 conducted October 11, 1999 (IT, 2000c)
- Round 6 conducted April 19, 20, 24 and 25, 2000 (IT, 2001a)
- Round 7 conducted October 17 and 19, 2000 (IT, 2001b)
- Round 8 conducted April 16 through April 19, 2001 (IT, 2002b)
- Round 9 conducted October 10, 11, 15 and 17, 2001 (IT, 2002c)
- Round 10 conducted April 16 through 18, 2002 (IT, 2003a)
- Round 11 conducted October 9 and 10, 2002 (IT, 2003b)
- Round 12 conducted April 9, 16, 17, 22, and 23, 2003 (Shaw, 2004a)
- Round 13 conducted October 2, 2003 (Shaw, 2004b)
- Round 14 conducted April 15 and 16, 2004 (Shaw 2004c)
- Round 15 conducted October 7, 2004.

## 5.2 Groundwater Sampling

During the October 2004 sampling event groundwater samples were collected from eleven monitoring wells that comprise the current OU2 groundwater quality monitoring network in the vicinity of the petroleum, oil and lubricant (POL) tank farm. The OU2 ROD monitoring well network was selected by evaluating groundwater analytical data from the Baseline event and subsequent investigations. The majority of wells selected for sampling are located in the total volatile hydrocarbon (TVH) plume identified in the OU2 Feasibility Study (FS), *Final Feasibility Study for Spill Sites 2, 3, and 10 Within Operable Unit 2* (ES, 1996), and are screened across the water table which historically is the zone of highest concentration of dissolved phase hydrocarbons. The following wells represent the current ROD monitoring well network based on an evaluation of Baseline results (IT, 1999e):

- |            |        |               |
|------------|--------|---------------|
| • 04-016-M | • OW-1 | • NEA-MW20-2S |
| • P18-1    | • OW-2 | • NEA-MW21-3S |
| • P18-2    | • OW-3 | • NEA-MW26-3S |
|            | • OW-4 | • NEA-MW28-5S |

Monitoring well NEA-MW21-3S has historically had a hydrocarbon layer of varying thickness (up to 1 foot) present on the water surface. A free-product removal system was installed in NEA-MW21-3S during October 2002. The recovery system piping was removed from the well in the summer of 2004. Additional discussion regarding free product removal is presented in Appendix A3.

Occasionally, perimeter monitoring wells that are not part of the OU2 monitoring well network are included in the semiannual events to periodically monitor areas downgradient or side-gradient of the POL tank farm. Wells NEA-MW20-1D and NEA-MW21-2D were added as periodically sampled wells during the October 2004 event.

The following downgradient or sidegradient wells (Figure 5-1) are sampled periodically:

- |               |               |               |
|---------------|---------------|---------------|
| • 04-606-M    | • NEA-MW22-3S | • NEA-MW25-2I |
| • MW11-1      | • NEA-MW23-2S | • NEA-MW25-3S |
| • NEA-MW20-1D | • NEA-MW24-2S | • OW-6        |
| • NEA-MW21-2D | • NEA-MW25-1D |               |

Current and historical field parameters and analytical data for the ROD and periodic monitoring wells are presented on Tables 5-1 and 5-2, respectively. The following sections discuss the OU2 ROD field sampling procedures and analytical data.

### **5.2.1 Groundwater Sampling Field Procedures**

OU2 monitoring wells were purged and sampled using the low flow rate/low volume purging and sampling method (micropurge). Monitoring wells were purged and sampled with dedicated pneumatic bladder pumps in accordance with the addendum to WPAFB FP 5-6. Micropurging procedures are presented in Appendix A3. Field measurements were recorded on groundwater purge logs (Appendix F1) and are summarized in Table 5-1.

### **5.3 Groundwater Analytical Parameters**

Groundwater samples were sent to Severn Trent Laboratories (STL) in North Canton, OH, and analyzed for VOCs using U.S. Environmental Protection Agency (USEPA) Method 8260B, nitrate and sulfate using Method 300.0A, and methane, ethane, and ethene using Method SOP-RSK175. Request for Analysis/CofC records for the October 2004 OU2 ROD sampling event are presented in Appendix F2.

### **5.4 Soil Gas Sampling Field Procedures**

The purpose of the soil gas probe monitoring at OU2 is to establish a correlation between levels of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and TVH in the soil vapor and areas of known soil contamination. During the Baseline field activities, fifteen permanent soil gas probes were installed throughout the POL tank farm and downgradient vicinity to monitor for hydrocarbon vapor in the vadose zone. Construction details of the soil gas probes are presented in the *OU2 Baseline Sampling Results Report* (IT, 1999e). During construction activities at the POL tank farm in 2000 and 2001, soil vapor monitoring points OU2-SV04 and OU2-SV05 were destroyed. Monitoring point OU2-SV04 was covered by asphalt and sealed from the surface; monitoring point OU2-SV05 was destroyed and buried during construction of a new fueling station. Soil sample results, collected from the borings during the installation of these two soil vapor monitoring points, did not correlate well with subsequent soil vapor concentrations from these points collected during the Baseline event. Also, the overall correlation between soil vapor VOC concentrations and groundwater VOC concentrations has been inconclusive. For these reasons, soil vapor points OU2-SV04 and OU2-SV05 will not be replaced.



Round 15 soil gas samples were collected on October 25 and 27, 2004, from all thirteen operable soil gas probes. However, the laboratory reported receipt of empty sample bag for point OU2-SV12. Therefore, the sample could not be analyzed. Soil gas samples were sent to STL, Los Angeles, CA, and analyzed for BTEX and total petroleum compounds (as gasoline and JP-4) by USEPA Method EPA-19 TO-3. Soil gas samples were also analyzed for fixed gases (oxygen, carbon dioxide and methane) by American Society for Testing and Materials (ASTM) Standard Method D1946.

### **5.5 Analytical Results**

Current and historical groundwater field parameters and analytical data are presented on Tables 5-1 and 5-2, respectively. Current and historical soil gas analytical data are presented on Table 5-3. A complete listing of all detected groundwater and soil gas parameters for Round 15 are presented in a "detects only" format in Appendices G1 and G2, respectively. Full analytical data reports are contained on the enclosed Analytical Data CD.

### **5.6 Analytical Discussion**

The analytical results for the OU2 Round 15 sampling event are summarized in the following sections.

#### **5.6.1 Groundwater Petroleum Hydrocarbon Compounds**

Five wells (04-016-M, NEA-MW20-2S, NEA-MW21-3S, OW-1, and P18-2) had benzene and/or BTEX compounds detected during the October 2004 event. Round 15 benzene and BTEX concentrations in groundwater, with the associated plumes, are presented on Figures 5-1 and 5-2, respectively. These figures also display the 1991 – 1992 concentration contours (in light grey) from the *Installation Restoration Program Final Remedial Investigation (RI) Report for Operable Unit 2* (ES, 1995) for comparison. The current benzene and BTEX plumes are centered immediately downgradient of the fuel storage tanks and do not extend as far downgradient as the 1991-1992 plumes.

BTEX concentrations for the OU2 ROD network monitoring wells are graphed as a function of time in Figures 5-10 through 5-21. Several figures present two graphs of BTEX concentrations for a single well. The top graph is at a scale that displays all the concentrations of BTEX; the bottom graph presents the data at a larger scale to distinguish the fluctuations of the lower

concentrations. These figures graphically display the fluctuations and ultimate decrease in BTEX concentrations at all of these wells.

Figure 5-22 presents a graph showing the benzene concentrations along the length of the hydrocarbon plume in the downgradient direction during selected previous LTM sampling events. The graph shows the highest benzene concentration at each location for several previous sampling events and for the current round.

The graph begins at a reference point of 0 feet, located at monitoring well 04-517-M which is immediately up gradient of the POL tank farm plume. Benzene concentrations at this well were below the detection limit and are considered 0 (zero) micrograms per liter ( $\mu\text{g/L}$ ) for the Baseline sampling (May 1997). This is the reference point for downgradient distances and concentrations for the Baseline and Rounds 1 through 15 sampling events. The distances between each well in the hydrocarbon plume, downgradient of well 04-517-M, are as follows:

- 04-517-M = 0 feet
- NEA-MW20-2S = 420 feet
- NEA-MW21-3S = 860 feet
- 04-518-M = 930 feet
- OW-1 = 1130 feet
- NEA-MW28-5S = 1310 feet
- OW-3 = 1480 feet
- P18-2 = 1580 feet
- OW-4 = 1660 feet
- P18-1 = 1855 feet.

The furthest downgradient well on Figure 5-22 is monitoring well OW-6 (2,100 feet downgradient). Well OW-6 is sampled periodically and did not have benzene detected in any of the three rounds it was sampled (May 1997, April 2000, October 2002). Figure 5-22 illustrates that benzene concentrations detected in wells within the original hydrocarbon plume have fluctuated but ultimately decreased since the Baseline event.

Round 15 groundwater concentrations of benzene and BTEX have shown significant decreases in the vicinity of Spill Site 10 (SP10) since the OU2 RI sampling (Figures 5-1 and 5-2). As seen in Figure 5-20, benzene concentrations at well P18-1 (Spill Site 10) have decreased from 570  $\mu\text{g/L}$  in 1991 to below the detection limit in October 2000, and concentrations have remained below the detection limit since then. Near the POL tank farm (Spill Sites 2 and 3),

benzene and BTEX concentrations have decreased compared to Baseline sampling results and the center of the plume has shifted slightly to the southeast, to be centered over NEA-MW20-2S.

Table 5-4 compares the highest detected benzene concentrations over previous sampling events with concentrations from the current round (Round 15) at the OU2 ROD wells. April 2000 (Round 6) is the most recent sampling event where benzene concentrations were detected at the highest historical concentration at an OU2 ROD well.

### 5.6.2 Groundwater Natural Attenuation Parameters

Concentrations of the natural attenuation parameters of dissolved oxygen (DO), oxidation reduction potential (ORP) and ferrous iron were measured in the field and recorded on purge logs. These parameters are presented in Table 5-1. The distributions of the Round 15 DO, ORP, and ferrous iron concentrations in groundwater are presented on Figures 5-3, 5-4, and 5-5, respectively. Analytical results for sulfate and nitrate are presented in Table 5-2. The distributions of sulfate and nitrate concentrations in groundwater are presented in Figures 5-6 and 5-7, respectively.

The expected relationship between BTEX concentrations and the concentration of a particular natural attenuation parameter (electron acceptor or its reduction product), when natural attenuation is occurring, is summarized in the following table from *Standard Guide for Remediation of Ground Water by Natural Attenuation at Petroleum Release Sites* (ASTM E 1943, April 1998):

BTEX	Oxygen	Ferrous Iron	Sulfate	Nitrate	Manganese	Methane
High	Low	High	Low	Low	High	High
Low	High	Low	High	High	Low	Low

When comparing the BTEX concentrations in groundwater (Figure 5-2) to the concentrations of the natural attenuation parameters of DO (Figure 5-3), ferrous iron (Figure 5-5), sulfate (Figure 5-6), and nitrate (Figure 5-7), a correlation similar to the above table is not always present for every parameter. ORP concentrations are presented in Figure 5-4. The ORP of groundwater is a measure of the relative tendency of a solution to accept or donate electrons. Comparing upgradient and high levels of ORP to the lower ORP levels within the plume indicate zones where biodegradation (especially anaerobic processes) is occurring (ASTM, 1998).

### **5.6.3 Soil Gas**

Soil gas analytical results are summarized in Table 5-3. Figure 5-8 compares the distribution of BTEX concentrations in the soil gas for Round 15 with the 1997 Baseline concentrations. The Round 15 TVH soil gas plume is presented in Figure 5-9 and has a similar distribution to the BTEX plume presented in Figure 5-8. TVH is reported as the sum of gasoline and JP-4. Gasoline and JP-4 are comprised of a mixture of hundreds of hydrocarbon compounds, including BTEX. The highest hydrocarbon concentrations are centered immediately west of the POL tanks in the vicinity of SV06, SV08, SV10 and SV14 (Figures 5-8 and 5-9). A 12-inch fuel line runs adjacent to soil vapor points OU2-SV06 and -SV14, and near point -SV10 (Figures 5-8 and 5-9). The fuel line was leak tested in the summer of 2004 and was found not to be leaking fuel. In addition, a small valve seep was discovered along this line by a tracer gas hit, but no fuel had been released. The valve has been repaired.

BTEX and TVH concentrations for the soil gas LTM monitoring points are graphed as a function of time in Figures 5-23 through 5-35. Soil gas analytical results from the Round 15 sampling event indicate lower concentrations of BTEX and TVH compounds when compared to previous sampling periods.

### **5.7 Groundwater Flow**

Figure 5-36 presents a graph of the average water level elevations for the Baseline and the 15 subsequent LTM sampling events at OU2. An average ground surface elevation for the site has been provided for a reference on depth to the water table. The water table is typically higher in the spring of the year (April events). Comparison of TVH and BTEX concentrations to groundwater elevation variations does not suggest a strong correlation to seasonal high water tables.

Figure 5-37 illustrates the groundwater flow pattern through OU2 during the October 2004 sampling event. Depth to water measurements and water level elevations are presented in Table 5-5. Groundwater is flowing predominantly from northeast to southwest through OU2. The water level field log is located in Appendix F3.

### **5.8 Conclusions**

Benzene concentrations ranged from below detection limits in wells 04-016-M, NEA-MW20-1D, -MW21-2D, -MW26-3S, -MW28-5S, OW-2, OW-3, OW-4, P18-1, and P18-2 to a maximum of

24 µg/L in well NEA-MW20-2S. The 1992 model of the POL tank farm area (ES, 1996) predicted that benzene concentrations would be below the MCL (5 µg/L) in 8-9.5 years (2000-2002). This was a conceptual model, which idealized conditions and estimated future contaminant concentrations in soil or groundwater. After 11 years (1993-2004), the only area not below the benzene MCL is the vicinity of well NEA-MW20-3S (Figure 5-1). Figures 5-1 and 5-2 provide a comparison of the current benzene and BTEX concentrations in groundwater to the RI results from 1991 and 1992 (ES, 1995). These figures show that compared to the RI isopleths, the extent and concentrations of the current benzene and BTEX plumes have significantly decreased since 1991-1992. Currently, the center of the plumes are now located in the area immediately downgradient of the POL tanks. Analytical results from the remaining OU2 ROD wells indicate that BTEX concentrations have decreased to remediation goals over the majority of the POL tank farm. However, the increase in the benzene concentration in well NEA-MW20-3S (Figure 5-12) may indicate migrating contamination that could potentially be detected in well NEA-MW21-3S.

Based on the interpreted groundwater flow vectors shown on Figure 5-37, monitoring wells NEA-MW25-3S, NEA-MW25-2I, NEA-MW25-1D, OW-6, and NEA-MW26-3S provide good downgradient definition of the OU2 hydrocarbon plumes at various depths. During the OU2 Baseline monitoring event in May 1997, all shallow depth monitoring wells in the vicinity of OU2, including downgradient wells OW-6 and NEA-MW25-3S, were sampled (IT, 1999e). Many of the monitoring wells in this area have remained in the OU2 monitoring program; however, the number of wells and the frequency of downgradient monitoring has been modified from the Baseline network. In addition to the semi-annual sampling of the eleven OU2 ROD wells, WPAFB will periodically monitor downgradient wells that may be identified as potential down- or side-gradient contaminant migration monitoring points, to "spot-check" for any unforeseen migration. Selection of these wells has varied from year to year.

6.0

## **6.0 Basewide Long-Term Monitoring**

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Chapter 6 presents the results of the GWOU long-term groundwater monitoring at WPAFB, Ohio. Data evaluation and conclusions are discussed in Chapter 7. Discussions on the LTM site history, sampling rationale, and monitoring procedures are presented in Appendix A2 and A4.

### **6.1 Introduction**

The October 2004 sampling event consisted of the semiannual sampling of Basewide groundwater monitoring wells for VOCs at former Building 59, the former Building 79/95 complex, Burial Site 5 (BS5), and Operable Units 2, 3, 4, 5 (FAA-A), 8 and 10. [Annual sampling of Basewide groundwater monitoring wells for VOCs and inorganics (metals) is conducted in April.] Sampling frequencies for selected Basewide monitoring wells are specified in Table A1-1 (Appendix A1). Further information on the LTM program, including objectives, can be obtained in the Final October 1998 LTM Report (IT, 1999b).

### **6.2 Site Location and Description**

A summary of the source operable units included within the GWOU is provided in Appendix A of the EE/CA (IT, 1999a). Operable Units 2, 3, 4, 5, 7 and 10 are located within Areas A & C of WPAFB (Figure 1-3). Operable Units 1, 6, 8, and 9, FAA-B, former Building 59 Complex, former Building 79/95 Complex, and Burial Sites 5 and 6 are all located within Area B (Figure 1-4). A brief description of each OU is also provided in the October 1998 Final LTM Report (IT, 1999b).

As discussed in Chapter 1, the GWOU was established under the BMP to provide a comprehensive method for monitoring and evaluating the individual source areas (OUs), any plume migration, and the natural attenuation of contaminants. Further discussion of the BMP is provided in the October 1998 LTM report (IT, 1999b). The specific objectives of the BMP, are presented in the *Site-Specific BMP Work Plan* (IT, 1995b).

This section describes the LTM activities associated with the Basewide LTM well network. Wells monitored under the OU1 and OU2 RODs are discussed in Chapters 2 and 5, respectively.

### **6.3 LTM Monitoring Well Network**

Monitoring well locations by management area are shown on Figures 6-1 through 6-10. Sampling frequencies for selected basewide monitoring wells are specified in Table A1-1 (Appendix A1). This table contains the monitoring frequency, sampling months, analytical parameters, and other sampling rationale for all groundwater sampling locations monitored under the LTM program. This is a dynamic table that may contain small variations in the LTM network between sampling events. These variations (typically additions) to the LTM network are the result of data evaluations from previous rounds and incorporating monitoring wells from completed projects (e.g. Building 59 Site Investigation). During the October 2004 sampling round, well OU4-MW04B (screened interval: 30.5-40.5 ft, below ground surface [bgs]) was sampled in place of OU4-MW04A (screened interval: 9.5-19.5 ft, bgs) to determine if any VOC contamination exists in the deeper well of the cluster. The four Building 79 wells (B79C/D-MW01, -MW02, -MW03 and -MW04) were sampled for the first time under the LTM program during the October 2002 sampling event. The Building 79 wells (Area B) were installed in February 2002 as part of the Building 79/95 Complex SI and were added to the LTM sampling program to monitor the trichloroethene (TCE) plume at the former complex. The current monitoring well networks that comprise the LTM program for each area of concern are presented in Appendix A4.

### **6.4 Basewide LTM Well Purging and Sampling**

Semiannual groundwater sampling was conducted from October 8 through October 21, 2004, at 55 Basewide monitoring wells. Groundwater samples were analyzed for VOCs only. Monitoring wells for the Basewide LTM program were purged and sampled using the micropurge low flow rate technique in accordance with the addendum to FP 5-6 and the procedures presented in Appendix A2. Monitoring wells were purged and sampled with dedicated submersible bladder (pneumatic) or low flow electric (Grundfos®) pumps (GR-333 and GR-334). The dedicated bladder pumps were installed during prior sampling programs or investigations. Table A1-2 (Appendix A1) presents a summary of the Basewide LTM Program well specifications.

Purge logs for sample collection are presented in Appendix H and the final parameters measured just prior to sampling are summarized in Table 6-1.

Purge water was containerized, transported back to a central staging area, and disposed of at a permitted treatment and disposal facility (Section 6.4.3).



#### **6.4.1 Sample Management**

Throughout the LTM program, each sample has been designated with a unique sample number that identifies the location, type of sample collected, and sampling event date. Shaw Environmental's ShawView was used for the first time during the October 2002 sampling event. The new ShawView sample numbering system has been incorporated with all recent sampling events since its institution. An explanation of the sample numbering system is presented in Appendix A2.

#### **6.4.2 Sample Handling**

CofC records were completed for each sample. CofC records contain sample numbers, date and time of collection, sample names, container types and volumes, preservatives, and analytical parameters. CofC records for the October 2004 Basewide LTM sampling event are presented in Appendix I. Sample handling procedures are presented in Appendix A2.

#### **6.4.3 Project Generated Wastes**

Wastewater generated during the investigation consisted of monitoring well purge water. Wastewater generated during the field activities was pumped into 55-gallon drums on the back of each field sampling truck. After filling, the drums then were pumped into a 550-gallon storage tank staged in the contractor parking lot near OU4. Approximately 350 gallons of wastewater were generated during the October 2004 LTM field activities. The wastewater was transported by vacuum tank-truck to a permitted treatment and disposal facility (Perma-Fix of Dayton). The WPAFB LTM purge water Bill of Lading is included in Appendix H. Purge waters are being shipped under a waste profile previously defined by this waste stream.

#### **6.4.4 Procedure Variances**

The only variance to the task Statement of Work was the use of the existing dedicated Grundfos<sup>®</sup> electric submersible pumps in wells GR-333 and GR-334 in place of installing new bladder pumps. The pumps and fixtures in these wells appeared to be permanently attached and were left in-place. Groundwater purging and sampling were completed using the Grundfos<sup>®</sup> pumps in accordance with WPAFB field procedure FP 5-6 (ES, 1990; FP 5-6 Addendum, 1998).

### **6.5 VOC Analytical Results**

As defined in the EE/CA, the remediation goal for organic contaminants of concern (benzene; ethylbenzene; xylenes; toluene; total 1,2-dichloroethane [DCA]; 1,2-Dichloroethene [1,2-DCE]; TCE; vinyl chloride; and tetrachloroethene [PCE]) is the MCL for each constituent. Table 6-2

presents the historical and October 2004 analytical data for these contaminants of concern by management area. Detected concentrations exceeding the MCLs in Table 6-2 are denoted with “( ).” Figures 6-1 through 6-10 spatially depict the detected concentrations of VOCs throughout each management area (concentrations exceeding MCLs are denoted in red). Figures 6-11 through 6-43 present concentration graphs of the historical groundwater analytical data collected through October 21, 2004, for each well where chemicals of primary concern were detected. In the legend of each graph, the MCL concentration is noted for the VOCs of concern detected at that well location. The October 2004 laboratory data for VOCs analysis are presented in Appendix J in “detects only” format. Full analytical reports are provided on the enclosed CD.

During the October 2004 sampling event, the maximum detected concentration of TCE (2,300 µg/L), total 1,2-DCE (1,607 µg/L), and vinyl chloride (57 µg/L) occurred at former Building 59 in well B59-MW02 (Figure 6-1). PCE was detected at a maximum detected concentration of 63 µg/L at the Central Heating Plant 4 (CHP4) area of OU10 in well GR-330 (Figure 6-9). The remaining VOCs of concern were either not detected or were not detected above the MCL.

The following presents the October 2004 results of the organic contaminants of concern by each management area.

### ***Former Building 59***

To monitor the VOC concentrations in groundwater at the former Building 59 site, four monitoring wells were added to the semiannual sampling program in April 2001 (Figure 6-1). For more information on the former Building 59 site, see Appendix A4.

As seen in Figure 6-1, VOCs were not detected in well B59-MW01 during the October 2004 sampling event. However, TCE, total 1,2-DCE and vinyl chloride were detected at all three remaining monitoring locations. TCE concentrations exceeding the MCL (5 µg/L) were detected at wells B59-MW02 and -MW03, with concentrations of 2,300 µg/L and 42 µg/L, respectively. TCE was detected at an estimated concentration of 0.43 µg/L at well -MW04 (Figure 6-11). As seen in Figures 6-12 and 6-13, wells -MW02 and -MW03 also had detected concentrations of total 1,2-DCE (1,607.4 µg/L and 165.5 µg/L, respectively) above the MCL (70 µg/L). Well -MW04 had total 1,2-DCE detected at a concentration of 6.49 µg/L, which is below the MCL (70 µg/L). Vinyl chloride concentrations exceeding the MCL (2 µg/L) were detected at wells

-MW02 (57 µg/L), -MW03 (25 µg/L), and -MW04 (2.6 µg/L). Benzene was detected at wells -MW03 (1.9 µg/L) and -MW04 (0.24 µg/L) at concentrations below the MCL (5 µg/L). Well -MW03 also had 1,2-DCA (0.70 µg/L) detected at a concentration below the MCL (5 µg/L).

The samples from wells B59-MW02 and -MW03 had concentrations that exceeded the calibration limit. The sample from B59-MW02 was diluted by a factor of 7.69, however, some parameters exceeded the calibration range and the sample was analyzed again with a dilution factor of 76.92. The sample from B59-MW03 was diluted by a factor of 5.71.

### ***Former Building 79/95 Complex***

Four new monitoring wells were sampled for the first time under the LTM program during the October 2002 sampling event. These four wells were installed and sampled in February 2002 as part of the Building 79/95 Complex SI (IT, 2003c). For more information on this complex, see Appendix A4.

During the October 2004 sampling event, TCE was detected at all four wells at concentrations that exceed the MCL (5 µg/L) (Figure 6-2). The current TCE concentrations at the former Building 79/95 Complex ranged from 30 µg/L at well B79C/D-MW01 to 45 µg/L at wells B79C/D-MW02 and -MW04. Benzene (0.32 µg/L), total 1,2-DCE (8.69 µg/L), and vinyl chloride (0.38 µg/L) were also detected at well -MW01 below their respective MCLs (Figure 6-14). As seen in Figure 6-15, wells -MW03 (0.44 µg/L) and -MW04 (0.71) also had detections of total 1,2-DCE at concentrations below the MCL.

The samples from wells B79C/D-MW02 and -MW04 had concentrations that exceeded the calibration limit and the samples were diluted by factors of 1.67 and 2, respectively.

### ***BS5***

As seen in (Figure 6-3), groundwater monitoring at BS5 is conducted at two areas. The monitoring well pair BS5 P-1 and P-2, bracket an area close to the museum runway. TCE and PCE concentrations in this area (Figure 6-16) have historically been below MCLs (5 µg/L for each) at well BS5 P-1 or have not been detected (BS5 P-2). The October 2004 results are consistent with the historical data.

The second groundwater monitoring area is at the BS5 P-3 and P-4 well cluster located due south of BS5 P-2, near the Base boundary. During the October 2004 sampling round, PCE was detected at concentrations of 24 µg/L in well P-3, and 25 µg/L in P-4. Other VOCs were not detected at these locations.

## **OU2**

VOCs were not detected in well NEA-MW-34-2S (Figure 6-4). As seen in Figure 6-18, PCE was detected above the MCL (5 µg/L) in well NEA-MW27-3I (7.1 µg/L) during the October 2004 event.

## **OU3**

For the October 2004 sampling event, all detected VOCs were below MCLs (Figure 6-5). Well FTA2-MW02C had vinyl chloride detected for the first time at an estimated concentration of 0.99 µg/L. Total 1,2-DCE was detected at wells 07-520-M, 05-DM-123S, and 05-DM-123I at concentrations of 0.25 µg/L, 0.70 µg/L, and 0.46 µg/L, respectively. Wells 05-DM-123S and 05-DM-123I also had TCE detected at concentrations of 2.5 µg/L and 2.7 µg/L, respectively (Figures 6-20 and 6-21).

## **OU4**

During the October 2004 sampling event, TCE was detected at six of the eight monitoring locations (Table 6-2 and Figure 6-6). TCE concentrations exceeded the MCL (5 µg/L) at well OU4-MW-02B (9.3 µg/L). TCE concentrations detected at the five other locations ranged from 0.33 µg/L to 4.5 µg/L. PCE was detected at two of the eight sampling locations. At well OU4-MW-12B, PCE was detected above the MCL (5 µg/L) at a concentration of 11 µg/L (Figure 6-25). Well OU4-MW-03C had PCE detected at an estimated concentration of 0.20 µg/L. As seen in Figure 6-6, total 1,2-DCE was detected at seven of the eight sampling locations at concentrations ranging from 6.4 µg/L to 0.30 µg/L. Vinyl chloride was detected at only one sample location, BMP-OU4-1B-60, at an estimated concentration of 0.35 µg/L (Figure 6-22).

## **OU5**

TCE was detected at seven of the thirteen monitoring locations during the October 2004 sampling event (Figure 6-7). TCE concentrations exceeding the MCL (5 µg/L) were detected at wells CW05-085, HD-11, and MW132S, with concentrations of 43 µg/L, 8.5 µg/L, and 25 µg/L, respectively. TCE concentrations detected at the four other locations ranged from 0.28 µg/L to

4.1 µg/L. PCE was detected at three sampling locations (HD-12S, MW131S, and MW132S) at concentrations ranging from 0.49 µg/L to 2.7 µg/L, which is below the MCL (5 µg/L). As seen in Figure 6-7, total 1,2-DCE was detected at ten of the thirteen sampling locations all at concentrations below the MCL (70 µg/L). Detected concentrations of total 1,2-DCE ranged from 21.1 µg/L at well HD-11 to 0.57 µg/L at well CW04-060. As seen in Figure 6-33, vinyl chloride was detected at a concentration above the MCL (2 µg/L) at well MW131M (11 µg/L). Vinyl chloride was detected at four other sampling locations at concentrations ranging from 0.37 µg/L to 1.0 µg/L. Benzene and 1,2-DCA were detected at only one location each (HD-13S and HD-13D, respectively) at concentrations below the MCL (5 µg/L for each).

Wells CW05-085 and HD-11 had concentrations that exceeded the calibration limit; the samples were diluted by a factor of 1.43 each.

### **OU8**

Monitoring well CW03-77 is the only OU8 monitoring well sampled semi-annually under the LTM program. All detected VOCs (TCE and PCE) were below the MCLs during the October 2004 sampling event (Figure 6-8). Figure 6-35 shows the current and historic concentrations of TCE and PCE at well CW3-077.

### **OU10 (CHP4)**

As seen in Figure 6-9, PCE was detected at all three OU10 (CHP4) sampling locations. PCE was detected at concentrations above the MCL (5 µg/L) at wells 23-578-M (5.1 µg/L) and GR-330 (63 µg/L). At well CHP4-MW01, PCE was detected at a concentration of 1.3 µg/L. As seen in Figure 6-36, TCE was also detected at well 23-578-M. The detected TCE concentration, 3.5 µg/L, was below the MCL (5 µg/L).

Well GR-330 had concentrations that exceeded the calibration limit and the sample was diluted by a factor of 2.

### **OU10**

As seen in Figure 6-10, TCE was detected at five of the eleven sampling locations. TCE concentrations exceeding the MCL (5 µg/L) were detected at wells OU10-MW-06S, -MW-11D, and -MW-21S, with concentrations of 11 µg/L, 9.8 µg/L, and 5.4 µg/L, respectively. At wells GR-333 and OU10-MW-19D, TCE was detected at concentrations of 1.1 µg/L and 3.2 µg/L,

respectively. PCE was detected at seven of the eleven sampling locations. Three wells (OU10-MW-03S, -MW-11S, and -MW-25S) had detected concentrations ranging from 5.2 µg/L to 13 µg/L, which are above the MCL (5 µg/L). PCE was detected at the remaining four locations at concentrations between 0.27 µg/L and 2.3 µg/L. Methyl tertiary-butyl ether (MTBE) was detected at well NEA-MW37-1D at an estimated concentration of 0.58 µg/L (Figure 6-39).

7.0

## 7.0 Basewide Groundwater Operable Unit Evaluation

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This chapter presents an evaluation of the analytical results across each of the investigation areas that comprise the Basewide GWOU. This evaluation uses data from the October 2004 Basewide LTM sampling event. The current LTM results are compared to the concentration data collected during previous LTM events and the RI activities (IT, 1997d) to evaluate whether there exists:

- Discernable differences in the distribution of VOC detections
- Discernable differences in the distribution of VOC concentrations.

### 7.1 VOC Analytical Findings

Investigation areas where contaminants of concern were detected during the October 2004 LTM sampling event are identified below by contaminant for the following organic compounds: TCE; PCE; total 1,2-DCE; vinyl chloride; 1,2-DCA; benzene; toluene; ethylbenzene; xylene; and MTBE. Table 6-2 presents the current and historic groundwater concentrations for these compounds at each monitoring well sampled under the Basewide LTM program.

#### 7.1.1 TCE

During the October 2004 event, TCE was detected in the following Basewide LTM investigation areas at concentrations that exceed the MCL (5 µg/L):

- Former Building 59 Complex (wells B59-MW02 and -MW03)
- Former Building 79 Complex (wells B79C/D-MW01, -MW02, -MW03, and -MW04)
- OU4 (well OU4-MW-02B)
- OU5 (wells CW05-085, HD-11, and MW132S)
- OU10 (wells OU10-MW-06S, -MW-11D, and -MW-21S).

TCE was also detected at concentrations below the MCL in additional wells located within the investigation areas identified above. TCE was detected at concentrations below the MCL in areas OU3, OU8, and OU10/CHP4. TCE was not detected in the remaining investigation areas (BS5 and OU2). Over the last several years, TCE concentrations have been stable to generally decreasing across most of the Basewide investigation areas with the exception of the former Building 59 and Building 79 areas.



### **7.1.2 PCE**

During the October 2004 event, PCE was detected in the following Basewide LTM investigation areas at concentrations that exceed the MCL (5 µg/L):

- Burial Site 5 (wells BS5 P-3 and BS5 P-4)
- OU2 (well NEA-MW27-3I)
- OU4 (well OU4-MW-12B)
- OU10/CHP4 (well GR-330)
- OU10 (wells OU10-MW-03S, -MW-11S, and -MW-25S).

PCE was also detected at concentrations below the MCL in additional wells located within some of the investigation areas identified above. PCE was detected below the MCL at areas OU5 and OU8. PCE was not detected at the remaining investigation areas (former Building 59 and 79 Complexes, and OU3). In general, PCE concentrations have been consistent or slowly decreasing since the Baseline sampling event with the exception of areas OU4 and OU10/CHP4.

### **7.1.3 Total 1,2-DCE**

During the October 2004 event, total 1,2-DCE was detected in the following Basewide LTM investigation area at concentrations that exceed the MCL (70 µg/L):

- Former Building 59 Complex (wells B59-MW02 and -MW03).

Total 1,2-DCE was also detected at concentrations below the MCL in an additional well located at the former Building 59 Complex, and at OU5. In addition, total 1,2-DCE was detected at concentrations below 9.0 µg/L at the former Building 79 Complex, OU3, and OU4. Total 1,2-DCE was not detected in samples from other areas of the Base (BS5, OU2, OU8, OU10/CHP4, and OU10). In general, total 1,2-DCE concentrations have been stable or slowly decreasing since the Baseline sampling event with the exception of the former Building 59 Complex.

### **7.1.4 Vinyl Chloride**

During the October 2004 event, vinyl chloride was detected in the following Basewide LTM investigation areas at concentrations that exceed the MCL (2 µg/L):

- Former Building 59 Complex (wells B59-MW02, -MW03, and -MW04)
- OU5 (well MW131M)

Vinyl chloride was also detected at concentrations below the MCL in additional wells located within the investigation areas identified above. Vinyl chloride was detected at an estimated concentration below the reporting limit in one well each from areas OU3, OU4 and the former Building 79 Complex. Vinyl chloride concentrations have fluctuated in these investigation areas, however, the current detected concentrations remain similar to previous events. Vinyl chloride was not detected in the remaining investigation areas of the Base (BS5, OU2, OU8, OU10/CHP4, and OU10).

#### **7.1.5 1,2-DCA**

During the October 2004 event, 1,2-DCA was not detected at concentrations that exceed the MCL (5 µg/L). 1,2-DCA was detected in only two Basewide monitoring areas (one well in each the former Building 59 Complex and OU5 areas). The former Building 59 Complex has periodically had some detections above the MCL. 1,2-DCA has either never been detected or has been sporadically detected at concentrations below the MCL in the remaining LTM wells.

#### **7.1.6 Benzene, Toluene, Ethylbenzene, and Total Xylenes**

During the October 2004 event, benzene was detected at concentrations below the MCL (5 µg/L) at the former Building 59 and Building 79 Complexes, and OU5. Toluene, ethylbenzene and total xylenes were not detected during the October 2004 sampling event. Since the Baseline sampling, BTEX compounds have been sporadically detected at concentrations below their respective MCLs at most investigation areas. The exception is benzene, which was detected above the MCL in one well at the former Building 59 Complex in June 1999.

A discussion of BTEX compounds detected at the OU2 ROD monitoring wells during the October 2004 sampling event is presented in Section 5.0.

#### **7.1.7 MTBE**

MTBE is a colorless synthetic VOC, derived from natural gas that is a gasoline additive to increase octane level, boost engine performance, and ostensibly improve air quality by reducing carbon monoxide and ozone levels in the air. The October 2000 sampling event was the first time VOC samples were analyzed for MTBE. Since then, only one well (NEA-MW37-1D [OU10]), has had a detection of MTBE. All detected concentrations of MTBE in this well have been at

estimated concentrations below the reporting limit of 5.0 µg/L. Detected concentrations have ranged from 0.45 µg/L to 0.64 µg/L. The October 2004 concentration in well NEA-MW37-1D was 0.58 µg/L. This well is located behind a blast shield and between Taxiway B and Runway 5R (Figure 7-7). An MCL for MTBE has not been established.

## **7.2 Contaminant Concentration Trends by Investigation Area**

The analytical data from the October 2004 LTM sampling event indicate that the concentrations of TCE, PCE, total 1,2-DCE, and vinyl chloride in groundwater are generally decreasing or are consistent with the Baseline event in April 1998 in most of the investigation areas. Trends in these VOC concentrations specific to each investigation area are discussed below.

### **7.2.1 Former Building 59 Complex**

At the former Building 59 Complex, TCE and total 1,2 DCE groundwater concentrations have steadily increased in well B59-MW02 over the last three years. Although current concentrations are lower than the April 2004 detections, the concentrations remain elevated above those detected in previous years. At well -MW03, TCE, total 1,2-DCE, and vinyl chloride concentrations have decreased compared to the October 2003 concentrations, but are still consistent with previous detections (Table 6-2). Figure 7-1 illustrates the approximate extent of the October 2004 TCE concentrations in groundwater at the former Building 59 Complex. The TCE plume is centered over -MW02 and extends through -MW03 and out towards -MW04. TCE concentrations have fluctuated and generally increased at -MW02 and -MW03 since these wells were installed. However, at -MW04, TCE concentrations have decreased since installation and have recently only been detected at estimated concentrations below the reporting limit.

Figure 7-2 shows the approximate location of the total 1,2-DCE groundwater concentrations at the former Building 59 Complex during the October 2004 sampling event. Total 1,2-DCE has been detected above the MCL in well B59-MW02 since it was installed in October 1998 (Table 6-2). Detections at well -MW03 have historically ranged from a high of 406 µg/L in April 1999 to a low of 61.2 µg/L in October 2002. The October 2004 concentration of 1,2-DCE at -MW03 is consistent with previous detections. Well -MW04 has consistently had detections of total 1,2-DCE, however, concentrations have never exceeded the MCL.

Figure 7-3 shows the approximate location of the vinyl chloride groundwater concentrations at the former Building 59 Complex during the October 2004 sampling event. While vinyl chloride

has been consistently detected at -MW02, concentrations have fluctuated ranging from a low of 10 µg/L in April 2000 to a high of 57 µg/L detected during the current event. Well -MW04 has had intermittent detections of vinyl chloride at concentrations above the MCL, including the current concentration of 2.6 µg/L.

The suspected source of the contamination (sludge from the sumps and the oil/water separator) was removed over the period of March 24 through April 7, 1999. After the building removal was complete, the site was back-filled with soil, re-graded, and paved in March 2001 (IT, 2002d). This removal action is described further in Appendix A4. Monitoring wells -MW02 and -MW03 are completed entirely into the limestone bedrock to depths of 31 and 20 feet, bgs, respectively. Monitoring well -MW01 has 5.5 feet of screen in the unconsolidated overburden and 4.5 feet of screen in the weathered limestone bedrock. Well -MW04 is screened six feet in the overburden and four feet into weathered bedrock. Wells -MW01 and -MW04 are completed to depths of 15.5 and 17.5 feet, bgs, respectively. WPAFB is currently evaluating the potential for using in-situ remediation to reduce the levels of VOCs in this area.

### **7.2.2 Former Buildings 79 and 95 Complex**

The four monitoring wells at the former Building 79 Complex were installed in February 2002 (Appendix A4). They have been sampled semi-annually since installation. TCE concentrations showed an initial increase in the downgradient and upgradient wells, B79C/D-MW01 and -MW04, in September 2002. Over the next several sampling events, TCE concentrations were steady until the April 2004 event, when concentrations increased at both locations to the highest concentration detected to date. The October 2004 TCE concentration at well -MW01 remained the same as the April 2004 concentration. However, at -MW04, the TCE concentration increased again. TCE concentrations in wells -MW02 and -MW03 during the September 2002 round were consistent with concentrations detected after installation. Over the next three sampling events, TCE concentrations began to decrease at these locations. The October 2004 concentrations are similar to those detected over the last three years. Figure 7-4 illustrates the approximate extent of the current TCE plume. Figure 7-5 is a geologic cross section showing the vertical distribution of TCE through the former Building 79 area. The cross section location is shown on Figure 7-4. Overall, the location of the TCE plume identified during the site investigation activities has not significantly changed, indicating that conditions are generally stable. Continued semi-annual monitoring will identify any changes in the contaminant concentrations.

### **7.2.3 Burial Site 5**

Since 1997, PCE has been detected at wells BS5 P-3 and P-4 at concentrations that have consistently ranged from 16 µg/L to 33 µg/L. Figure 7-6 illustrates the plume around the P-3 and P-4 well cluster. Well BS5 P-1 has had an average PCE concentration of approximately 1 µg/L since November 1998. PCE has never been detected in well BS5 P-2.

### **7.2.4 OU2 and OU3**

At OU2 and OU3, TCE has either not been detected or has been detected below the MCL since the 1992 and 1993 sampling events. In the vicinity of well NEA-MW27-3I, a wetland pump-and-treat remediation system has been in operation since the summer of 2000. As seen in Table 6-2, PCE concentrations have been decreasing slightly since the system began operating. Future sampling will determine if the system will reduce PCE concentrations to below the MCL. This location is included in the plume that extends through much of OU10 (Figure 7-7).

### **7.2.5 OU4**

Figure 7-8 illustrates the approximate extent of the current TCE plume. Over the last year, TCE was detected at its lowest historical levels at wells OU4-MW-02B, -MW-03B, and -MW-03C (Table 6-2). In addition, TCE concentrations dropped below the MCL at wells OU4-MW-03B, -MW-03C and -MW-12B. Overall, the OU4 area shows that VOC concentrations have been stable or are generally decreasing since the Baseline event. The exception is well OU4-MW-12B, where PCE concentrations have increased slightly since the Baseline event to the current concentration of 11 µg/L. Over the same time period, TCE concentrations have decreased at OU4-MW-12B from 11 µg/L in 1998 to the current concentration of 4.5 µg/L (Figure 6-25). Continued semi-annual monitoring will identify if concentrations of PCE, and any other daughter products, continue to increase as TCE degrades.

### **7.2.6 OU5**

TCE concentrations at OU5 remained consistent with recent sampling rounds with the exception of well CW05-055. The TCE concentration in well CW05-055 decreased from 15 µg/L in April 2003 to an estimated concentration of 1.0 µg/L in October 2004. As seen in Figure 7-9, TCE appears to occur in two separate plumes. One plume emanates from LF5 and is centered on extraction well EW-1 and monitoring well CW05-085 (43 µg/L). Concentrations of TCE in wells CW05-055, CW05-085, HD-11, MW131S, and MW131M have historically decreased after the GWTS was placed in operation in December 1991. After the first few years of GWTS operation, TCE

concentrations in these wells reached relatively constant levels. After the permanganate injection pilot test was conducted in June and July 2000 (IT, 2001c), TCE concentrations increased at wells CW05-055 and HD-11 during the subsequent sampling events in 2001 and 2002. Beginning in 2003, concentrations dropped at both wells to the current concentrations of 1.0 µg/L and 8.5 µg/L, respectively. In addition, TCE concentrations decreased at well CW05-085 after the permanganate injection test. Over the last two years, TCE concentrations have fluctuated between 50 µg/L and 38 µg/L, which are historically low levels at CW05-085. At wells MW131M and MW131S, TCE concentrations have decreased since the permanganate injection pilot test to either estimated concentrations below the reporting limit or were not detected.

The other TCE plume is centered on Huffman Preserve well MW132S (25 µg/L). At well MW132S, current TCE concentrations are consistent with those detected since 1992. Figures 7-10 and 7-11 are geologic cross sections A-A' and B-B', respectively, through the OU5 area. Cross section locations are shown on Figure 3-2. Figure 7-10 shows the vertical distribution of TCE in the downgradient direction, from the landfill toward Huffman Dam. On Figure 7-10, the two plume centers previously delineated on Figure 7-9 are clearly shown. Figure 7-11 presents a cross-gradient view of the TCE plume immediately downgradient of EW-1.

PCE concentrations in wells HD-12S and MW131S decreased during the first few years the GWTS was in operation. At well MW131S, concentrations have been below the MCL since September 1995 and recent detections of PCE have been at estimated concentrations below the reporting limit (1.0 µg/L). PCE concentrations at well HD-12S have recently dropped below the MCL with the current concentration of 2.7 µg/L. Historically, the PCE plume at OU5 has been centered on well HD-12S, with the fringes of the plume extending toward MW132S. As seen in Figure 7-12, the current round also displays a similar trend. However, due to the recent decrease in concentration at MW132S (2.0 µg/L) and only an estimated concentration detected between MW132S and HD-12S, two plumes are displayed on Figure 7-12. PCE has been detected at MW132S since 1992 and concentrations have dropped to below or near the MCL since November 2000 with this current round having the lowest detected concentration to date.

As seen in Figure 7-12, the current vinyl chloride plume is centered on well MW131M. In the early 1990s as TCE concentrations decreased at wells MW131M and HD-13S, vinyl chloride was detected. Prior to the injection pilot test, vinyl chloride had been intermittently detected at well HD-13S. After the injection pilot test, TCE has been consistently detected at HD-13S with some

concentrations exceeding the MCL. After vinyl chloride was first detected in 1994 at well MW131M (1.0 µg/L), concentrations have fluctuated from non-detect (1995 and October 2003), to a high of 22 µg/L in April 1999. Continued semi-annual monitoring will identify any trends in the concentrations of PCE and vinyl chloride, or any other daughter products, as TCE degrades.

These general trends indicate the extent of the capture area of EW-1 and the effectiveness of the groundwater treatment system at LF5. The vicinity of well MW132S, however, appears to be outside of the EW-1 capture zone and VOC concentrations are not being affected.

#### **7.2.7 OU8**

During the October 2004 event, VOCs were either not detected or were detected at estimated concentrations below the reporting limit at well CW03-77. Since the Baseline event in 1998, TCE concentrations have decreased and PCE concentrations have stabilized at 1.1 µg/L or less.

#### **7.2.8 OU10/CHP4**

Over the past several years, TCE concentrations have remained generally stable or decreasing at the wells closest to CHP4 (wells 23-578-M and CHP4-MW01). The TCE concentration in well 23-578-M has recently decreased to below the MCL. Figure 7-13 shows the approximate extent of the TCE plume at OU10/CHP4, which is centered on well 23-578-M. Figure 7-14 illustrates the approximate extent of the PCE plume, which is centered on well GR-330 near the Base Medical Center. This well has had consistent detections of PCE since 1993. However, PCE concentrations began to increase in April 2002, and concentrations have remained consistent over the last several sampling events. Well GR-330 is an upgradient Base boundary well located on the downgradient side of a bedrock high. As seen in Figure 7-15, a shopping complex on Kauffman Road sits on top of the bedrock high (IT, 1996). The bedrock drops off sharply towards the southwest (approaching well GR-330) but slopes more gently to the north over Kittyhawk Center. In addition, there is no known source of contamination originating from WPAFB.

#### **7.2.9 OU10**

Overall, VOC concentrations at OU10 have been stable to generally decreasing since the Baseline event. The exception is well OU10-MW11D, where TCE concentrations have fluctuated and generally increased since April 1998. The VOC concentrations detected during the October 2004 event are consistent with previous sampling events. Figure 7-7 shows the current PCE and TCE plumes at OU10. There are three areas within OU10 where TCE detections occur. Wells

OU10-MW06S, OU10-MW11D and OU10-MW21S typically have the highest detected concentrations. Historically, monitoring wells GR-333, OU10-MW-06S, OU10-MW-11D, OU10-MW19D, and OU10-MW21S have had TCE detected consistently since 1994. The PCE plume is centered between OU2 well NEA-MW27-3I and OU10-MW11S. Three wells have had PCE detected consistently since 1994 (OU10-MW03S, OU10-MW11S, and OU10-MW25S). The TCE degradation daughter products 1,2-DCE and vinyl chloride have never been detected at these OU10 wells. Continued semi-annual monitoring will help identify contaminant trends.

### ***7.3 Inorganic Analytical Results***

Basewide LTM sampling for annual inorganic analysis is conducted in April.





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**Table 2-1**  
**OU1 Monitoring Well Sampling**  
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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Well Went Dry (Y/N)
<b>Landfill 8</b>									
LF08-MW02A Screened Interval = 43.7-53.7 ft bgs Ground Surface Elevation = 891.76 ft MSL	10/12/99	5.81	13.20	6.81	1.530	18.0	-48.5	8.21	N
	10/23/00	5.58	14.20	7.52	1.200	0.0	-190.7	0.52	N
	10/03/01 <sup>A</sup>	5.03	12.78	7.58	2.835	16.5	-104.4	0.08	Y
	10/02/02	5.14	19.25	7.21	1.910	24.1	-148.0	0.90	N
	10/01/03	4.76	13.23	7.12	2.090	23.4	-143.0	0.66	N
	10/05/04	5.55	14.40	7.39	1.420	0.0	-160.0	0.27	N
LF08-MW02C Screened Interval = 11.7-21.7 ft bgs Ground Surface Elevation = 895.61 ft MSL	10/12/99	12.96	14.70	7.15	0.933	20.0	-42.8	5.96	N
	10/13/00	13.05	14.30	7.28	1.050	3.0	129.5	2.51	N
	04/23/01	13.72	14.00	7.20	0.858	0.0	-97.4	2.73	N
	10/04/01	13.05	14.24	6.95	2.259	13.5	-74.4	7.85	N
	04/30/02	11.50	11.90	6.91	0.963	12.0	-92.0	0.00	N
	10/02/02	12.45	17.97	7.16	0.947	2.0	-116.0	1.22	N
	04/21/03	13.88	11.00	7.23	0.952	114.0	-84.0	0.00	N
	10/01/03	12.85	13.46	6.96	0.896	25.0	-90.0	2.41	N
	04/29/04	12.03	11.04	6.88	0.838	22.6	-109.0	7.43	N
	10/06/04	13.40	13.02	7.25	0.793	0.0	-118.0	0.00	N
LF08-MW05B Screened Interval = 41.7-51.7 ft bgs Ground Surface Elevation = 949.17 ft MSL	11/02/00	20.67	14.80	7.67	1.000	0.0	52.7	6.79	N
	04/23/01	19.68	16.30	7.13	0.845	0.0	-142.4	1.12	N
	10/02/01	19.88	15.21	7.25	0.929	5.6	-89.2	1.52	N
	04/29/02	16.59	12.30	7.20	0.896	1.4	-105.0	3.05	N
	10/03/02	20.65	16.44	7.23	0.930	13.7	-98.0	3.68	N
	04/11/03	16.36	12.34	7.45	1.090	16.8	-127.0	1.27	N
	10/09/03	19.02	13.96	7.39	0.930	9.6	-147.0	4.31	N
	04/28/04	17.11	14.24	7.36	0.980	9.3	-145.0	1.36	N
	10/05/04	21.20	12.95	7.48	0.990	0.0	-174.0	0.56	N
LF08-MW08A Screened Interval = 17.0-32.0 ft bgs Ground Surface Elevation = 875.23 ft MSL	10/24/00	6.00	14.00	7.43	0.722	7.0	-116.1	0.09	N
	10/02/01	3.83	15.96	7.05	0.752	10.4	-68.7	2.34	N
	10/08/02	4.95	15.72	7.31	0.729	7.3	-93.0	2.97	N
	10/13/03	3.78	13.86	6.97	0.716	0.0	-108.0	5.20	N
	10/05/04	5.42	15.28	7.40	0.699	13.9	-139.0	0.34	N
LF08-MW08B Screened Interval = 16.67-22.0 ft bgs Ground Surface Elevation = 878.63 ft MSL	10/24/00	5.00	14.90	7.43	0.721	0.0	-95.0	0.79	N
	04/24/01	2.38	12.50	6.98	0.615	5.0	-207.2	0.39	N
	10/09/01	5.49	14.30	7.11	0.840	19.0	-23.8	4.91	N
	04/29/02	1.68	11.20	7.04	0.757	17.2	-76.0	0.00	N
	10/08/02	4.33	14.52	7.30	0.736	0.2	-59.0	0.68	N
	04/08/03	3.61	10.38	7.18	0.875	12.6	-88.0	0.00	N
	10/09/03	3.68	15.91	7.26	0.407	18.2	-142.0	0.00	N
	04/14/04	1.83	15.84	7.15	0.792	20.1	-80.0	1.08	N
	10/05/04	4.97	13.62	7.32	0.670	4.8	-109.0	2.84	N
LF08-MW08C Screened Interval = 6.7-11.7 ft bgs Ground Surface Elevation = 875.16 ft MSL	10/24/00 <sup>A</sup>	7.73	16.20	7.32	0.920	6.0	169.6	10.19	Y
	10/02/01 <sup>A</sup>	7.34	16.43	7.02	1.007	113.0	225.1	0.25	Y
	10/08/02 <sup>A</sup>	6.73	15.44	7.31	1.170	92.2	159.0	9.33	Y
	10/16/03 <sup>C</sup>	9.55	15.50	6.20	1.470	25.0	171.0	9.26	Y
	10/05/04 <sup>C</sup>	9.80	15.52	7.30	1.030	38.7	140.0	5.81	Y
LF08-MW09A Screened Interval = 25.2-30.2 ft bgs Ground Surface Elevation = 855.38 ft MSL	10/12/99	17.32	15.00	7.41	0.813	7.0	157.2	4.67	N
	10/23/00	15.36	14.30	7.15	0.425	0.0	141.8	7.46	N
	04/24/01	15.48	11.30	7.17	0.677	0.0	-125.0	5.36	N
	10/08/01	16.47	12.12	7.52	0.898	0.0	3.5	11.15	N
	04/29/02	14.23	10.80	7.28	0.825	10.9	172.0	8.18	N
	10/14/02	14.46	12.66	7.50	0.808	12.6	141.0	10.01	N
	04/08/03	14.90	8.43	7.16	0.950	14.1	211.0	6.42	N
	10/14/03	13.72	12.79	7.26	0.449	7.3	117.0	6.42	N
	04/14/04	13.80	10.89	7.13	0.855	6.5	190.0	2.33	N
	10/18/04	14.10	10.74	7.38	0.802	23.1	104.0	6.08	N
LF08-MW09B Screened Interval = 13.7-18.7 ft bgs Ground Surface Elevation = 853.33 ft MSL	10/12/99	15.07	13.60	6.95	1.120	23.0	157.9	2.54	N
	10/23/00	14.60	14.80	6.54	0.605	0.0	147.3	2.50	N
	10/08/01	16.27	14.64	6.77	1.292	0.0	46.5	7.40	N
	10/14/02	14.05	12.97	6.89	1.260	-0.3	208.0	3.99	N
	10/14/03	13.28	13.66	6.76	1.200	1.2	200.0	4.05	N
	10/18/04	13.19	13.14	6.81	1.230	20.0	169.0	4.46	N



**Table 2-1**  
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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Well Went Dry (Y/N)
LF08-MW10A Screened Interval = 53.7-63.7 ft bgs Ground Surface Elevation = 909.90 ft MSL	10/12/99	26.42	15.70	7.19	0.762	2.0	-189.0	1.58	N
	10/25/00	27.76	13.70	6.83	0.428	1.0	-144.4	0.62	N
	10/03/01	26.32	15.61	7.12	0.816	0.0	-78.4	3.03	N
	10/14/02	24.62	12.62	7.30	0.818	9.7	-140.0	1.32	N
	10/06/03	23.80	14.37	7.22	0.430	12.1	-171.0	0.00	N
	10/20/04	25.36	13.66	7.18	0.740	4.2	-177.0	0.00	N
LF08-MW10B Screened Interval = 29.8-34.8 ft bgs Ground Surface Elevation = 912.27 ft MSL	10/18/99	24.11	14.00	6.72	1.810	0.0	-29.1	1.18	N
	10/25/00	25.20	14.00	6.26	1.600	24.0	-22.4	0.99	N
	04/24/01	20.60	14.20	6.51	1.580	0.0	-160.0	0.86	N
	10/03/01	23.06	16.16	6.53	1.922	ERR	11.7	5.73	N
	04/29/02	17.02	12.60	6.54	1.900	16.0	-6.0	0.00	N
	10/14/02	19.18	13.56	6.88	1.610	-1.4	-41.0	3.09	N
	04/15/03	19.40	14.30	6.70	1.390	0.0	-13.0	1.02	N
	10/06/03	19.69	15.27	6.83	0.726	6.8	-57.0	0.32	N
	04/19/04	18.49	13.92	6.90	1.160	6.7	-32.0	2.10	N
	10/12/04	23.81	13.81	6.61	1.370	20.1	-79.0	0.42	N
LF08-MW10C Screened Interval = 17.5-22.5 ft bgs Ground Surface Elevation = 909.87 ft MSL	10/20/99 <sup>B</sup>	23.22	12.10	6.68	1.860	140.0	67.8	8.90	Y
	10/25/00	DRY	No samples collected - Well Dry			-	-	-	Y
	10/03/01	DRY	No samples collected - Well Dry			-	-	-	Y
	10/11/02 <sup>C</sup>	18.74	15.72	6.66	1.050	6.7	184.0	5.44	Y
	10/06/03	19.10	14.71	7.05	0.649	6.6	20.0	1.34	N
	10/20/04	BTP	14.79	7.04	1.420	7.4	91.0	0.73	N
LF08-MW11A Screened Interval = 49.8-54.8 ft bgs Ground Surface Elevation = 932.51 ft MSL	10/08/02	13.92	13.92	7.42	0.557	2.1	-111.0	1.26	N
	10/09/03	11.01	14.80	7.47	0.464	8.2	-128.0	0.55	N
	10/13/04	12.71	14.86	7.14	0.515	24.8	-144.0	0.66	N
LF08-MW11B Screened Interval = 31.8-42.0 ft bgs Ground Surface Elevation = 932.74 ft MSL	04/24/01	9.92	11.80	8.48	0.681	0.0	-152.7	7.07	N
	10/09/01	12.22	16.09	6.97	1.192	8.1	-60.1	8.52	N
	05/01/02	8.70	13.80	6.83	1.180	5.8	-98.0	0.00	N
	10/07/02	12.81	14.91	7.06	1.100	5.9	-132.0	0.17	N
	04/11/03	7.79	13.30	7.19	1.250	12.3	-115.0	0.76	N
	10/08/03	9.83	14.77	6.87	1.150	23.2	-113.0	0.29	N
	04/21/04	8.59	13.33	7.12	1.160	61.4	-115.0	0.39	N
	10/13/04	12.05	14.48	6.71	0.970	24.1	-150.0	0.38	N
LF08-MW11C Screened Interval = 12.5-22.5 ft bgs Ground Surface Elevation = 933.22 ft MSL	10/09/02 <sup>C</sup>	11.92	18.87	7.26	1.240	2.8	141.0	4.20	Y
	10/09/03	8.93	16.23	6.84	1.330	11.3	79.0	0.40	N
	10/13/04	11.14	15.78	6.77	1.290	1.3	111.0	0.38	N
LF08-MW101 Screened Interval = 56.0-66.0 ft bgs Ground Surface Elevation = 925.72 ft MSL	10/20/99 <sup>A</sup>	33.46	13.20	7.41	0.484	off scale	NR	ERR	Y
	10/24/00	34.60	14.00	6.99	0.219	14.0	-166.1	0.23	N
	04/24/01	30.58	11.00	7.58	0.546	0.0	-145.6	1.06	N
	10/01/01	31.50	17.33	7.56	0.594	25.1	-77.1	1.88	N
	04/29/02	35.63	13.50	7.54	0.298	10.4	71.0	6.04	N
	10/07/02	31.55	18.25	7.33	0.385	7.1	-67.0	0.42	N
	04/11/03	29.45	11.91	7.26	0.679	21.0	-118.0	1.17	N
	10/01/03	30.69	16.45	7.05	0.644	11.8	-158.0	3.44	N
	04/14/04	29.15	9.88	6.85	0.264	27.2	32.0	5.89	N
	10/04/04	32.00	15.96	7.71	0.847	10.9	-188.0	1.03	N
LF08-MW102 Screened Interval = 61.0-71.0 ft bgs Ground Surface Elevation = 933.69 ft MSL	10/19/99	39.50	13.50	6.88	0.404	21.0	-122.5	ERR	N
	10/18/00	37.94	11.00	7.44	0.726	1.0	-77.2	6.29	N
	04/24/01	35.86	12.00	7.45	0.498	0.0	-23.3	3.20	N
	10/01/01	38.32	15.72	4.83	0.633	0.0	-4.2	2.06	N
	04/29/02	34.60	12.00	7.64	0.226	4.8	65.0	4.60	N
	10/07/02	36.72	16.34	8.04	0.483	1.3	121.0	2.08	N
	04/10/03	34.88	12.76	8.48	0.483	11.4	-2.0	1.75	N
	09/30/03	35.98	14.90	7.98	0.345	10.7	58.0	2.98	N
	04/14/04	30.18	12.24	7.75	0.343	0.0	101.0	ERR	N
	10/06/04	37.09	15.83	7.27	0.494	0.0	-119.0	0.22	N

**Table 2-1**  
**OU1 Monitoring Well Sampling**  
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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Well Went Dry (Y/N)
LF08-MW103 Screened Interval = 56.0-66.0 ft bgs Ground Surface Elevation = 937.16 ft MSL	10/19/99	35.93	13.80	7.05	0.505	4.0	-154.4	ERR	N
	10/24/00	37.35	14.70	6.98	0.274	4.0	-123.3	1.87	N
	04/24/01	35.00	19.40	7.61	0.365	0.0	-95.7	1.79	N
	10/01/01	35.01	17.26	7.37	0.540	7.5	-93.4	1.19	N
	04/29/02	29.38	12.80	7.52	0.178	18.8	-7.0	5.47	N
	10/07/02	35.60	14.78	7.40	0.437	0.9	-51.0	0.29	N
	04/10/03	34.40	12.37	7.63	0.307	11.0	-54.0	1.04	N
	09/30/03	35.18	14.90	7.31	0.264	11.0	-23.0	1.31	N
	04/14/04	33.48	12.90	7.59	0.209	21.4	111.0	ERR	N
	10/06/04	36.05	13.89	7.32	0.515	6.7	-162.0	0.66	N
LF08-MP013 Screened Interval = 5.0-11.0 ft bgs Ground Surface Elevation = 909.92 ft MSL	10/17/02 <sup>A</sup>	9.45	18.22	6.78	1.380	7.9	118.0	4.24	Y
	04/23/03	6.00	14.61	6.73	1.240	97.1	107.0	17.73	Y
	10/10/03	9.87	18.11	7.28	0.629	13.0	143.0	7.36	Y
	04/23/04	6.00	11.03	7.24	0.987	10.6	92.0	0.00	N
	10/20/04	DRY	No samples collected - Well Dry			-	-	-	Y
02-DM-81S-M Screened Interval = 31.3-36.3 ft bgs Ground Surface Elevation = 948.10 ft MSL	10/27/00	29.98	13.00	11.31	4.480	10.0	-128.9	4.50	N
	10/02/01	25.81	13.59	12.32	5.684	0.1	3.6	5.60	N
	10/03/02	26.80	14.66	12.19	6.720	0.4	-69.0	9.81	N
	10/09/03	25.20	13.66	12.77	7.290	14.1	-161.0	5.54	N
	10/05/04	27.34	13.03	13.12	7.180	6.4	-118.0	6.61	N
02-DM-81D-M Screened Interval = 48.5-53.5 ft bgs Ground Surface Elevation = 949.67 ft MSL	10/30/00	30.29	15.20	7.32	0.845	48.0	-91.9	1.80	N
	04/23/01	27.63	15.60	6.91	0.941	0.0	-134.9	1.59	N
	10/02/01	28.88	14.08	6.95	1.011	0.4	-81.4	6.53	N
	04/29/02	25.85	12.20	6.76	1.010	1.3	-92.0	2.55	N
	10/03/02	29.45	15.22	7.10	1.080	6.0	-87.0	4.88	N
	04/22/03	28.34	11.00	7.06	1.130	0.0	-110.0	1.52	N
	10/13/03	28.19	13.05	7.06	0.593	20.1	-126.0	0.47	N
	04/23/04	26.10	11.80	7.03	0.960	6.8	-96.0	8.84	N
	10/05/04	29.78	13.38	7.45	1.060	20.1	-136.0	8.69	N
02-DM-82-M Screened Interval = 59.5-64.5 ft bgs Ground Surface Elevation = 893.37 ft MSL	10/30/00	12.58	11.70	7.30	0.800	5.0	-101.6	1.57	N
	04/23/01	10.22	15.00	7.45	0.622	0.0	1.0	2.03	N
	10/04/01	12.82	13.81	7.19	0.748	0.0	-55.4	0.83	N
	04/30/02	9.81	11.20	7.31	0.697	16.2	-40.0	1.14	N
	10/01/02	11.87	15.30	6.97	0.720	7.1	-67.0	1.07	N
	04/21/03	11.49	11.10	7.37	0.744	10.8	-46.0	0.00	N
	10/09/03	10.95	13.48	7.29	0.604	23.4	-82.0	0.45	N
	04/28/04	8.74	10.45	7.40	0.689	0.0	56.0	1.97	N
	10/05/04	12.26	11.87	7.42	0.608	0.0	-77.0	0.00	N
	10/31/00	20.40	15.20	6.34	1.550	495.0	32.8	3.15	N
02-DM-83S-M Screened Interval = 12.0-17.0 ft bgs Ground Surface Elevation = 913.32 ft MSL	04/25/01 <sup>A</sup>	16.75	10.80	6.86	1.360	off scale	193.6	4.60	Y
	10/05/01 <sup>A</sup>	17.60	15.91	6.79	0.015	942.0	184.4	1.30	Y
	04/29/02	14.70	10.70	6.82	1.470	12.1	183.0	10.47	N
	10/10/02	16.55	15.26	7.02	1.560	19.8	-4.0	6.53	N
	04/22/03	17.60	11.50	6.90	1.590	161.0	28.0	0.00	N
	10/08/03	16.42	16.59	6.80	0.711	7.3	26.0	1.22	N
	04/23/04	14.81	11.50	6.94	1.270	0.4	19.0	2.10	N
	10/20/04	18.58	15.62	7.00	1.420	1.1	100.0	5.73	N
02-DM-83D-M Screened Interval = 37.1-47.1 ft bgs Ground Surface Elevation = 910.70 ft MSL	10/31/00	17.00	14.10	6.61	0.439	0.0	285.4	0.37	N
	10/02/01	14.60	17.31	6.74	0.732	0.0	136.9	0.55	N
	10/10/02	13.58	15.47	7.26	0.775	8.3	65.0	1.11	N
	10/08/03	13.40	17.01	7.16	0.393	23.9	-24.0	0.00	N
	10/20/04	15.56	14.25	7.11	0.678	4.3	7.0	0.00	N
02-DM-84-M Screened Interval = 52.8-57.8 ft bgs Ground Surface Elevation = 912.60 ft MSL	10/27/00	22.90	14.00	6.21	0.815	10.0	-108.1	0.75	N
	10/02/01	21.76	13.41	ERR	1.361	3.9	-77.1	1.77	N
	10/16/02	20.17	12.61	6.56	1.580	0.0	-107.0	2.97	N
	10/01/03	19.91	13.79	6.39	1.420	7.9	-88.0	0.52	N
	10/18/04	20.57	11.94	6.49	1.340	0.0	-127.0	0.00	N

**Table 2-1**  
**OU1 Monitoring Well Sampling**  
**Field Parameters**  
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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Well Went Dry (Y/N)	
<b>Landfill 10</b>										
LF10-MW03A Screened Interval = 86.0-91.0 ft bgs Ground Surface Elevation = 907.49 ft MSL	10/26/00 <sup>C</sup>	92.30	16.20	7.53	0.949	78.0	25.5	12.63	Y	
	04/26/01 <sup>A</sup>	89.88	13.00	7.40	0.780	440.0	120.3	2.50	Y	
	10/05/01 <sup>A</sup>	89.50	14.18	7.11	7.964	792.0	-8.6	2.77	Y	
	04/30/02	89.76	No samples collected -- Well Dry							Y
	10/11/02	90.24	Insufficient water -- Some samples collected, no field readings taken							Y
	04/08/03	89.86	Insufficient water -- Samples collected, no field readings taken							Y
	10/16/03 <sup>A</sup>	89.58	12.54	5.80	0.484	6.5	199.0	3.21	Y	
	04/29/04 <sup>C</sup>	89.76	14.42	6.00	0.867	13.7	162.0	13.11	Y	
	10/13/04 <sup>A</sup>	90.59	14.79	7.24	0.776	off scale	97.0	8.80	Y	
LF10-MW05B Screened Interval = 27.0-34.2 ft bgs Ground Surface Elevation = 856.38 ft MSL	10/12/99	20.41	11.70	7.05	0.553	0.0	15.0	ERR	N	
	10/25/00	20.51	13.00	7.03	0.792	0.0	-84.0	0.47	N	
	04/23/01	20.83	13.20	6.85	0.708	0.0	-83.8	0.45	N	
	10/03/01	19.87	12.86	7.00	1.530	0.0	-16.2	0.66	N	
	04/30/02	19.60	11.80	6.92	0.825	14.9	6.0	0.00	N	
	10/02/02	19.45	14.90	7.00	0.780	1.5	8.0	1.38	N	
	04/21/03	19.75	11.92	6.97	1.020	0.0	-19.0	0.00	N	
	09/30/03	19.15	11.96	7.04	0.706	10.2	-10.0	0.44	N	
	04/23/04	19.26	11.65	7.03	0.722	0.0	21.0	0.00	N	
	10/04/04	19.47	12.32	6.92	0.720	19.9	-57.0	0.56	N	
LF10-MW05C Screened Interval = 17.8-27.8 ft bgs Ground Surface Elevation = 856.64 ft MSL	10/14/99	10.90	Insufficient water -- Some samples collected, no field readings taken							Y
	10/25/00	10.28	14.50	6.75	1.180	84.0	-89.5	12.09	N	
	10/03/01 <sup>A</sup>	9.98	14.94	6.70	2.526	188.0	25.7	0.71	Y	
	10/02/02	9.44	16.72	6.66	1.080	39.4	231.0	7.28	N	
	09/30/03	9.50	15.49	6.52	1.200	2.9	76.0	0.71	N	
	10/06/04	BTP	15.24	6.66	1.270	0.0	-84.0	0.66	Y	
LF10-MW06A Screened Interval = 74.80-84.80 ft bgs Ground Surface Elevation = 894.62 ft MSL	10/12/99	72.10	15.10	7.26	0.478	0.0	37.7	7.76	N	
	10/25/00	72.10	13.90	7.20	0.691	0.0	-50.1	6.71	N	
	04/25/01	72.54	13.40	7.27	0.592	0.0	52.5	6.38	N	
	10/08/01	72.98	13.11	7.53	0.037	0.0	107.7	5.80	N	
	04/30/02	71.86	13.80	7.43	0.648	0.2	26.0	8.51	N	
	10/10/02	71.90	15.15	7.74	0.690	2.3	86.0	10.08	N	
	04/08/03	71.90	12.80	7.69	0.726	0.0	91.0	6.96	N	
	10/13/03	71.94	14.14	7.46	0.385	9.5	52.0	10.63	N	
	04/22/04	71.80	13.04	7.54	0.664	4.2	105.0	NA	N	
	10/11/04	71.98	13.94	7.84	0.680	0.0	47.0	11.03	N	
LF10-MW6A-DUP* Screened Interval = 55.0-65.0 ft bgs Ground Surface Elevation = 892.09 ft MSL	10/25/00	67.07	No samples collected -- Well Dry							Y
	10/09/01 <sup>A</sup>	66.89	15.61	7.70	0.047	1205.0	133.5	1.92	Y	
	10/10/02	66.83	No samples collected -- Well Dry							Y
	10/14/03	66.75	No samples collected -- Well Dry							Y
LF10-MW06B Screened Interval = 37.5-42.5 ft bgs Ground Surface Elevation = 891.90 ft MSL	10/12/04 <sup>A</sup>	66.89	15.19	8.13	0.843	off scale	34.0	6.76	Y	
	10/12/99	36.00	22.30	7.07	0.590	0.0	-18.0	2.11	N	
	10/25/00	34.95	14.00	7.00	0.832	0.0	-97.3	0.63	Y	
	10/08/01	34.30	13.43	6.94	0.046	10.0	-29.3	3.92	N	
	10/10/02	34.43	15.21	7.13	0.831	2.2	-78.0	2.92	N	
	10/13/03	34.00	13.76	7.13	0.460	1.6	-82.0	2.35	N	
	10/11/04	34.57	14.45	7.26	0.865	0.0	-125.0	2.73	N	
LF10-MW07A Screened Interval = 64.0-69.0 ft bgs Ground Surface Elevation = 897.54 ft MSL	10/26/00	53.30	13.10	7.27	0.885	0.0	-198.2	0.21	N	
	04/23/01	53.24	14.40	7.07	0.823	0.0	-158.7	0.53	N	
	10/04/01	52.47	15.31	7.23	0.936	0.3	-112.1	9.49	N	
	04/30/02	51.88	13.30	7.15	0.905	0.0	-145.0	1.43	N	
	10/03/02	51.63	16.82	7.39	0.992	3.2	-159.0	ERR	N	
	04/21/03	51.70	12.71	7.52	1.130	13.2	-158.0	0.00	N	
	10/08/03	51.27	13.31	7.30	1.030	0.0	-175.0	3.81	N	
	04/23/04	50.94	12.51	7.20	0.905	2.7	-135.0	7.22	N	
LF10-MW07B Screened Interval = 19.3-24.3 ft bgs Ground Surface Elevation = 895.14 ft MSL	10/11/04	51.07	13.41	7.30	0.874	4.7	-179.0	0.47	N	
	10/26/00	DRY	No samples collected -- Well Dry							Y
	10/04/01	DRY	No samples collected -- Well Dry							Y
	10/04/02	29.16	No samples collected -- Well Dry							Y
	10/08/03	28.55	No samples collected -- Well Dry							Y
	10/20/04	29.16	No samples collected -- Well Dry							Y

**Table 2-1**  
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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Well Went Dry (Y/N)
LF10-MW07C Screened Interval = 9.3-14.3 ft bgs Ground Surface Elevation = 895.98 ft MSL	10/26/00 <sup>A</sup>	17.02	15.30	6.37	1.450	off scale	72.8	9.52	Y
	10/04/01 <sup>C</sup>	11.79	19.11	6.64	1.631	13.4	103.9	6.64	Y
	10/04/02 <sup>C</sup>	10.49	18.97	6.70	1.670	7.1	209.0	4.06	Y
	10/09/03 <sup>C</sup>	14.70	17.45	7.10	1.650	12.3	93.0	12.42	Y
	10/11/04	14.66	16.71	6.65	1.480	0.0	103.0	1.31	N
LF10-MW08A-2 Screened Interval = 79.9-89.9 ft bgs Ground Surface Elevation = 863.35 ft MSL	10/13/99	68.13	16.40	7.12	0.636	15.0	-72.3	ERR	N
	10/18/00	67.16	12.60	6.75	0.553	22.0	-84.2	0.60	N
	04/25/01	65.52	16.10	7.10	0.799	6.0	-90.7	1.40	N
	10/04/01	66.65	17.96	6.88	1.679	647.0	-33.4	5.16	N
	05/01/02	65.02	13.60	7.19	0.832	0.9	-102.0	3.22	N
	10/16/02	66.84	13.22	7.12	1.020	1.0	-86.0	1.34	N
	04/15/03	66.05	14.19	7.33	1.040	23.3	-109.0	1.99	N
	10/06/03	66.65	13.26	7.05	0.505	0.0	-77.0	0.60	N
	04/19/04	65.69	15.03	7.05	0.897	4.3	-77.0	3.48	N
	10/13/04	67.65	13.85	6.93	0.809	0.0	-88.0	0.49	N
LF10-MW08B Screened Interval = 11.5-16.5 ft bgs Ground Surface Elevation = 862.36 ft MSL	10/13/99	DRY	No samples collected -- Well Dry			--	--	--	Y
	10/26/00	10.14	16.30	6.59	2.030	6.0	-38.6	0.48	N
	10/08/01	BTP	16.34	6.48	0.103	6.7	-9.2	0.10	N
	10/14/02	11.03	17.12	7.01	2.180	7.3	-58.0	1.43	N
	10/09/03	11.56	15.40	6.86	2.190	0.0	-104.0	0.01	N
	10/18/04	11.95	14.60	6.80	3.080	0.5	-59.0	0.26	N
LF10-MW09A Screened Interval = 77.0-87.0 ft bgs Ground Surface Elevation = 876.44 ft MSL	10/18/99	51.76	12.30	7.43	0.603	0.0	-20.5	0.79	N
	10/30/00	51.58	12.50	7.35	0.755	0.0	-167.6	0.28	N
	10/03/01	52.46	13.26	8.65	0.690	4.7	-29.4	1.04	N
	10/07/02	53.31	13.17	7.35	0.680	1.2	-120.0	0.45	N
	09/30/03	51.19	14.48	7.40	0.380	0.6	-82.0	0.58	N
	10/11/04	51.66	12.35	7.15	0.599	0.6	-105.0	0.88	N
LF10-MW09B Screened Interval = 47.0-57.0 ft bgs Ground Surface Elevation = 876.63 ft MSL	10/18/99	51.05	11.70	7.06	1.290	0.0	-108.7	1.42	N
	10/26/00	50.89	13.40	7.02	1.250	0.0	-175.1	1.23	N
	10/03/01	50.69	13.58	7.17	1.160	9.3	-106.8	7.12	N
	10/07/02	52.90	12.64	7.01	1.230	1.4	-147.0	0.18	N
	09/30/03	50.87	12.40	6.84	0.658	2.4	-157.0	0.00	N
	10/11/04	50.89	12.34	7.06	0.990	0.0	-175.0	0.29	N
LF10-MW09C Screened Interval = 31.05-41.10 ft bgs Ground Surface Elevation = 878.17 ft MSL	10/18/99	36.65	12.60	7.18	1.140	6.0	-89.1	2.29	N
	10/30/00	36.68	12.00	7.10	1.150	1.0	-165.1	1.53	N
	04/25/01	32.51	12.20	7.12	0.716	21.0	-23.9	8.43	N
	10/03/01	35.25	16.50	7.16	1.088	3.1	149.5	18.10	N
	05/01/02	30.40	12.60	6.89	1.210	15.8	188.0	11.03	N
	10/07/02	37.46	13.53	7.05	1.170	1.3	-58.0	2.27	N
	04/22/03	31.76	11.80	6.96	1.430	22.1	100.0	12.14	N
	09/30/03	34.52	12.22	7.00	0.640	17.1	18.0	5.28	N
	04/23/04	31.18	11.34	6.84	1.220	114.9	228.0	2.62	N
	10/11/04	35.25	12.84	7.04	0.940	17.5	-81.0	2.67	N
LF10-MW10C Screened Interval = 56.0-66.0 ft bgs Ground Surface Elevation = 844.19 ft MSL	10/30/00	50.29	14.10	6.66	0.529	22.0	-31.1	0.81	N
	04/26/01	46.71	12.40	7.06	0.802	0.0	155.6	0.56	N
	10/09/01	47.89	15.37	6.41	0.910	1.0	231.2	0.64	N
	05/01/02	46.95	13.00	6.74	0.935	3.7	1.0	0.00	N
	10/08/02	47.80	13.13	7.17	0.954	-0.2	-31.0	0.59	N
	04/08/03	46.88	12.50	7.08	0.957	0.0	16.0	0.00	N
	09/30/03	47.57	13.74	7.03	0.823	0.1	-32.0	3.65	N
	04/22/04	46.80	12.67	7.01	1.000	0.0	141.0	0.59	N
LF10-MW11A Screened Interval = 61.7-71.7 ft bgs Ground Surface Elevation = 851.76 ft MSL	10/06/04	48.80	13.63	7.09	0.775	0.0	-45.0	0.00	N
	10/14/99	30.56	12.60	7.51	0.608	9.0	-72.2	3.47	N
	10/30/00	33.40	10.80	6.81	0.413	0.0	-106.2	0.76	N
	10/04/01	30.10	15.24	7.21	0.671	0.8	-42.1	4.68	N
	10/03/02	30.06	15.09	7.21	0.690	3.1	-102.0	0.58	N
	10/14/03	29.81	12.15	7.25	0.659	1.3	-127.0	3.18	N
	10/11/04	30.47	12.88	6.47	0.649	7.1	-126.0	2.99	N

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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Well Went Dry (Y/N)
LF10-MW11B Screened Interval = 30.2-40.2 ft bgs Ground Surface Elevation = 852.55 ft MSL Duplicate	10/14/99	27.95	13.10	7.58	1.000	18.0	-73.3	1.26	N
	10/30/00	30.40	11.80	6.66	0.641	11.0	-90.6	1.86	N
	10/05/01	28.09	14.15	6.91	1.068	7.1	-59.4	1.51	N
	10/08/01	28.40	11.50	7.00	1.036	2.1	81.9	5.08	N
	10/03/02	28.23	15.21	6.88	1.060	2.9	-101.0	0.41	N
	10/15/03	28.25	11.63	6.77	1.110	14.4	-99.0	4.30	N
	10/12/04	28.31	12.76	6.89	0.986	16.6	-127.0	1.30	N
LF10-MW102 Screened Interval = 55.0-66.0 ft bgs Ground Surface Elevation = 891.25 ft MSL	10/18/99	62.34	Insufficient water -- Some samples collected, no field readings taken						Y
	10/25/00	64.78	No samples collected -- Well Dry						Y
	04/25/01	DRY	No samples collected -- Well Dry						Y
	10/05/01	DRY	No samples collected -- Well Dry						Y
	05/01/02	DRY	No samples collected -- Well Dry						Y
	10/08/02	DRY	No samples collected -- Well Dry						Y
	04/23/03	DRY	No samples collected -- Well Dry						Y
	10/09/03	DRY	No samples collected -- Well Dry						Y
	04/28/04	DRY	No samples collected -- Well Dry						Y
	10/06/04	DRY	No samples collected -- Well Dry						Y
LF10-MW103 Screened Interval = 32.0-42.0 ft bgs Ground Surface Elevation = 909.65 ft MSL	10/19/99 <sup>A</sup>	32.81	13.90	6.40	1.360	455.0	-49.6	ERR	Y
	10/26/00	36.60	16.70	6.27	1.700	6.0	-89.7	0.64	Y
	04/25/01	32.70	12.50	6.58	1.380	361.0	-52.2	2.47	N
	10/08/01 <sup>A</sup>	33.89	14.78	6.32	1.894	42.0	-59.5	6.51	Y
	05/01/02	32.45	No samples collected -- Well Dry						Y
	10/08/02 <sup>A</sup>	33.59	19.38	6.77	1.020	12.5	-82.0	3.47	Y
	04/23/03 <sup>C</sup>	32.92	13.95	6.80	1.100	106.0	28.0	19.99	Y
	10/10/03 <sup>C</sup>	32.73	16.15	5.84	0.470	12.0	88.0	6.76	Y
	04/23/04 <sup>C</sup>	31.96	11.45	6.75	0.847	69.8	34.0	6.45	Y
	10/07/04 <sup>C</sup>	32.26	15.15	6.23	0.794	24.7	205.0	8.56	Y
LF10-MW104 Screened Interval = 60.0-70.0 ft bgs Ground Surface Elevation = 909.40 ft MSL	10/18/99	DRY	No samples collected -- Well Dry						Y
	10/25/00	DRY	No samples collected -- Well Dry						Y
	04/25/01	DRY	No samples collected -- Well Dry						Y
	10/05/01	DRY	No samples collected -- Well Dry						Y
	05/01/02	DRY	No samples collected -- Well Dry						Y
	10/07/02	DRY	No samples collected -- Well Dry						Y
	04/17/03	68.26	No samples collected -- Well Dry						Y
	10/09/03	DRY	No samples collected -- Well Dry						Y
	04/29/04	64.41	13.29	8.04	1.370	66.0	141	13.10	Y
	10/06/04	DRY	No samples collected -- Well Dry						Y
LF10-MW105 Screened Interval = 53.0-63.0 ft bgs Ground Surface Elevation = 873.02 ft MSL	10/14/99	46.58	13.20	7.62	0.413	19.0	197.3	1.22	Y
	10/26/00	48.36	12.40	7.10	0.368	2.0	164.5	1.30	Y
	04/25/01	46.14	12.20	7.25	0.513	1.0	-116.8	2.86	Y
	10/05/01 <sup>A</sup>	46.75	14.21	7.41	0.636	1.8	75.0	1.80	Y
	04/30/02	45.74	12.70	7.02	0.578	0.4	46.0	2.27	Y
	10/02/02	45.85	17.83	7.68	0.641	1.6	73.0	1.30	Y
	04/23/03 <sup>C</sup>	45.85	12.53	7.16	0.793	10.6	-72.0	14.24	Y
	10/10/03 <sup>B</sup>	45.96	15.05	7.16	0.339	10.2	96.0	5.01	Y
	04/29/04 <sup>B</sup>	45.64	13.10	6.69	0.650	23.1	185.0	7.28	Y
	10/07/04 <sup>A</sup>	46.10	14.23	7.51	0.592	18.2	-15.0	0.85	Y
01-DM-102S-M Screened Interval = 17.9-22.9 ft bgs Ground Surface Elevation = 842.50 ft MSL	10/30/00	26.03	No samples collected -- Well Dry						Y
	10/09/01 <sup>A</sup>	25.90	15.91	7.80	NR	471.4	283.8	9.69	Y
	10/08/02	25.88	No samples collected -- Well Dry						Y
	10/16/03	25.94	Insufficient water -- Some samples collected, no field readings taken						Y
	10/13/04	25.82	No samples collected -- Well Dry						Y
01-DM-102D-M Screened Interval = 51.5-56.5 ft bgs Ground Surface Elevation = 844.27 ft MSL	10/31/00	48.27	13.50	7.97	0.931	42.0	89.1	2.35	N
	04/25/01	46.51	13.00	8.62	0.440	14.0	-173.3	1.33	N
	10/08/01	48.00	16.73	8.49	0.487	662.0	246.3	2.42	N
	05/01/02	45.80	13.40	7.31	0.765	16.5	113.0	2.27	N
	10/08/02	47.86	15.86	8.13	0.633	27.9	76.0	4.95	N
	04/08/03	46.95	12.70	7.55	0.747	45.6	136.0	1.75	N
	09/30/03	47.72	14.78	7.23	0.739	28.1	109.0	5.82	N
	04/22/04	47.09	12.82	7.64	0.680	20.4	177.0	4.85	N
	10/13/04	48.94	14.43	8.18	0.478	0.0	55.0	3.77	N

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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Well Went Dry (Y/N)
01-004-M Screened Interval = 33.0-63.0 ft bgs Ground Surface Elevation = 883.23 ft MSL	10/27/00	46.82	16.40	7.24	0.884	643.0	31.5	6.24	N
	04/23/01	48.33	17.10	7.05	0.830	0.0	104.1	4.78	N
	10/03/01	47.43	15.98	7.42	0.926	80.2	209.5	18.92	N
	04/30/02	37.38	12.60	6.90	1.190	10.4	73.0	7.08	N
	10/02/02	40.22	16.35	6.93	1.020	29.7	72.0	3.17	N
	04/21/03	38.06	12.01	7.43	1.260	304.0	45.0	17.45	N
	10/07/03	39.50	13.73	7.08	1.090	299.0	93.0	6.21	N
	04/29/04	37.73	13.42	6.71	0.964	23.8	20.0	2.61	N
	10/20/04	36.39	12.18	7.11	1.070	202.0	37.0	3.55	N
LF8/10-EFF	07/28/04	NA	NR	NR	NR	NR	NR	NR	N
	10/21/04	NA	12.89	7.04	1.780	59.3	186.0	9.80	N

(A) - Water quality readings taken before well went dry. Well allowed to recover before samples were collected.

(B) - Well went dry and allowed to recharge. Final water quality readings were taken after sampling.

(C) - Well went dry and allowed to recharge. Initial water quality readings were taken before sampling.

\* - Well LF10-MW06A-DUP is a separate well

ft, TOC - feet below top of casing

C° - Degrees Celsius

NA - Not applicable

NR - No reading

ERR - equipment error

mV - millivolts

DO - Dissolved Oxygen

mg/L - milligrams per liter

BTP - Below top of pump

SU - Standard Units

mS/cm - microSeimen per centimeter

NTU - Nephelometric turbidity units

ORP - Oxygen Reduction Potential

**Table 2-2**  
**OU1 Regulatory Detection Limits for Chemicals of Concern: October 2004**  
**Wright-Patterson AFB, OH**  
**Page 1 of 7**

		REGULATORY LIMITS		DETECTION LIMITS						
	Chemicals of Concern	ROD Compliance Level (µg/L)	MCL (µg/L)	LF08-MW02A (µg/L)	LF08-MW02C (µg/L)	LF08-MW05B (µg/L)	LF08-MW05B-DUP (µg/L)	LF08-MW08A (µg/L)	LF08-MW08B (µg/L)	LF08-MW08C (µg/L)
VOCs	Benzene	0.62	5.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Chloroform	0.28	NRL	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	trans-1,2-Dichloroethene	100	100	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Ethylbenzene	NRL	700	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Methylene Chloride	6.22	NRL	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Toluene	NRL	1,000	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Trichloroethene	3.03	5.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Vinyl Chloride	0.0283	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Total Xylenes	NRL	10,000	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	SVOCs									
Benz(a)pyrene	NRL	NRL	10	10	10	10	10	10	10	10
	Diethylphthalate	NRL	NRL	10	10	10	10	10	10	10
	4-Methylphenol	NRL	NRL	10	10	10	10	10	10	10
	Naphthalene	NRL	NRL	10	10	10	10	10	10	10
Dioxins										
Total HPCDD	5.67X10 <sup>-5</sup>	NRL	1.6E-06	1.1E-06	1.1E-06	2.9E-06	1.2E-06	1.6E-06	2.5E-06	
	5.67X10 <sup>-5</sup>	NRL	1.2E-06	9.3E-07	9.1E-07	1.7E-06	1.0E-06	1.2E-06	1.9E-06	
	5.67X10 <sup>-6</sup>	NRL	1.4E-06	1.2E-06	1.1E-06	2.2E-06	1.1E-06	1.4E-06	2.1E-06	
	2.3,7,8 TCDD	3.00X10 <sup>-5</sup>	3.0E-06	2.5E-06	2.2E-06	4.4E-06	2.4E-06	2.8E-06	3.7E-06	
	2.3,7,8 TCDF	5.67X10 <sup>-6</sup>	NRL	2.8E-06	2.4E-06	2.1E-06	3.9E-06	2.2E-06	2.8E-06	3.3E-06
	OCDD	5.67X10 <sup>-4</sup>	NRL	1.6E-06	1.2E-06	1.1E-06	3.8E-06	1.5E-06	2.0E-06	3.5E-06
	OCDF	5.67X10 <sup>-4</sup>	NRL	1.7E-06	1.2E-06	1.3E-06	3.8E-06	1.2E-06	2.4E-06	3.6E-06
	Pesticides									
Dieldrin	NRL	NRL	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
PCBs										
Aroclor 1242	NRL	NRL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	NRL	NRL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	NRL	NRL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	NRL	NRL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Inorganic Metals										
Arsenic	11	50	10	10	10	10	10	10	10	10
Beryllium	0.02	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Cadmium	NRL	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Copper	NRL	1,300	25	25	25	25	25	25	25	25
Iron	NRL	NRL	100	100	100	100	100	100	100	100
Lead	NRL	15	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Zinc	NRL	NRL	50	50	50	50	50	50	50	50
Inorganic										
Ammonia	NRL	NRL	200	200	200	200	200	200	200	200
Cyanide	NRL	200	10	10	10	10	10	10	10	10

**Table 2-2**  
**OU1 Regulatory Detection Limits for Chemicals of Concern: October 2004**  
**Wright-Patterson AFB, OH**  
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WPAFB  
 Final  
 LTM Report: October 2004  
 Chapter 2  
 September 2, 2005

		REGULATORY LIMITS		DETECTION LIMITS							
	ROD Compliance Level (µg/L)	MCL (µg/L)	LF08-MW09A (µg/L)	LF08-MW09B (µg/L)	LF08-MW10A (µg/L)	LF08-MW10B (µg/L)	LF08-MW10C (µg/L)	LF08-MW11A (µg/L)	LF08-MW11B (µg/L)	LF08-MW11C (µg/L)	LF08-MW101 (µg/L)
Chemicals of Concern											
VOCS											
Benzene	0.62	5.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Chloroform	0.28	NRL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
trans-1,2-Dichloroethene	100	100	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Ethylbenzene	NRL	700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Methylene Chloride	6.22	NRL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Toluene	NRL	1,000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Trichloroethene	3.03	5.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Vinyl Chloride	0.0283	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Xylenes	NRL	10,000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SVOCs											
Benz(a)pyrene	NRL	NRL	NC	10	10	10	10	10	10	10	10
Diethylphthalate	NRL	NRL	NC	10	10	10	10	10	10	10	10
4-Methylphenol	NRL	NRL	NC	10	10	10	10	10	10	10	10
Naphthalene	NRL	NRL	NC	10	10	10	10	10	10	10	10
Dioxins											
Total HPCDD	5.67X10 <sup>-5</sup>	NRL	NC	7.0E-07	5.9E-07	7.5E-07	NC	1.1E-06	1.1E-06	8.2E-07	9.0E-07
1,2,3,4,6,7,8 HPCDF	5.67X10 <sup>-5</sup>	NRL	NC	6.1E-07	5.3E-07	5.5E-07	NC	9.3E-07	9.0E-07	6.5E-07	8.6E-07
1,2,3,4,7,8 HxCDD	5.67X10 <sup>-6</sup>	NRL	NC	7.3E-07	6.1E-07	7.8E-07	NC	1.2E-06	1.2E-06	8.5E-07	9.7E-07
2,3,7,8 TCDD	5.67X10 <sup>-7</sup>	3.00X10 <sup>-6</sup>	NC	1.1E-06	9.9E-07	1.6E-06	NC	1.7E-06	1.6E-06	1.3E-06	1.8E-06
2,3,7,8 TCDF	5.67X10 <sup>-6</sup>	NRL	NC	1.2E-06	1.0E-06	1.4E-06	NC	1.8E-06	1.5E-06	1.5E-06	1.9E-06
OCDD	5.67X10 <sup>-4</sup>	NRL	NC	7.7E-07	8.1E-07	8.7E-07	NC	1.5E-06	1.3E-06	9.8E-07	1.5E-06
OCDF	5.67X10 <sup>-4</sup>	NRL	NC	8.9E-07	7.1E-07	7.7E-07	NC	1.5E-06	1.4E-06	1.0E-06	1.3E-06
Pesticides											
Dieldrin	NRL	NRL	NC	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
PCBs											
Aroclor 1242	NRL	NRL	NC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Aroclor 1248	NRL	NRL	NC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Aroclor 1254	NRL	NRL	NC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Aroclor 1260	NRL	NRL	NC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Inorganic Metals											
Arsenic	11	50	10	10	10	10	10	10	10	10	10
Beryllium	0.02	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Cadmium	NRL	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Copper	NRL	1,300	25	25	25	25	25	25	25	25	25
Iron	NRL	100	100	100	100	100	100	100	100	100	100
Lead	NRL	15	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Zinc	NRL	NRL	50	50	50	50	50	50	50	50	50
Inorganic											
Ammonia	NRL	NRL	200	200	200	200	200	200	200	200	200
Cyanide	NRL	200	10	10	10	10	10	10	10	10	10



**Table 2-2**  
**OU1 Regulatory Detection Limits for Chemicals of Concern: October 2004**  
**Wright-Patterson AFB, OH**  
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	REGULATORY LIMITS		DETECTION LIMITS									
	ROD Compliance Level (µg/L)	MCL (µg/L)	LF08-MW102 (µg/L)	LF08-MW103 (µg/L)	02-DM-81S-M (µg/L)	02-DM-81D-M (µg/L)	02-DM-82-M (µg/L)	02-DM-83S-M (µg/L)	02-DM-83D-M (µg/L)	02-DM-84-M (µg/L)	02-DM-84-M-DUP (µg/L)	
Chemicals of Concern												
VOCs												
Benzene	0.62	5.0	1.0	1.0	1.0	1.0	1.0	1.7	1.0	1.0	1.0	
Chloroform	0.28	NRL	1.0	1.0	1.0	1.0	1.0	1.7	1.0	1.0	1.0	
trans-1,2-Dichloroethene	100	100	0.5	0.5	0.5	0.5	0.5	0.8	0.5	0.5	0.5	
Ethylbenzene	NRL	700	1.0	1.0	1.0	1.0	1.0	1.7	1.0	1.0	1.0	
Methylene Chloride	6.22	NRL	1.0	1.0	1.0	1.0	1.0	1.7	1.0	1.0	1.0	
Toluene	NRL	1,000	1.0	1.0	1.0	1.0	1.0	1.7	1.0	1.0	1.0	
Trichloroethene	3.03	5.0	2.0	2.0	2.0	2.0	2.0	3.3	2.0	2.0	2.0	
Vinyl Chloride	0.0283	2.0	1.0	1.0	1.0	1.0	1.0	1.7	1.0	1.0	1.0	
Total Xylenes	NRL	10,000	1.0	1.0	1.0	1.0	1.0	1.7	1.0	1.0	1.0	
SVOCs												
Benzo(a)pyrene	NRL	NRL	10	10	10	10	10	10	10	10	10	
Diethylphthalate	NRL	NRL	10	10	10	10	10	10	10	10	10	
4-Methylphenol	NRL	NRL	10	10	10	10	10	10	10	10	10	
Naphthalene	NRL	NRL	10	10	10	10	10	10	10	10	10	
Dioxins												
Total HPCDD	5.67X10 <sup>-5</sup>	NRL	1.5E-06	9.8E-07	1.1E-06	1.6E-06	1.1E-06	6.6E-07	7.5E-07	7.3E-07	7.9E-07	
1,2,3,4,6,7,8 HPCDF	5.67X10 <sup>-5</sup>	NRL	1.2E-06	8.3E-07	7.7E-07	1.4E-06	9.3E-07	6.2E-07	5.9E-07	6.0E-07	7.0E-07	
1,2,3,4,7,8 HxCDD	5.67X10 <sup>-6</sup>	NRL	1.2E-06	9.3E-07	1.0E-06	1.5E-06	1.0E-06	7.3E-07	6.8E-07	8.2E-07	8.0E-07	
2,3,7,8 TCDD	5.67X10 <sup>-7</sup>	3.00X10 <sup>-5</sup>	2.5E-06	1.9E-06	2.0E-06	3.7E-06	2.0E-06	9.7E-07	1.1E-06	1.2E-06	1.2E-06	
2,3,7,8 TCDF	5.67X10 <sup>-6</sup>	NRL	2.2E-06	1.8E-06	1.8E-06	3.1E-06	1.8E-06	1.1E-06	1.2E-06	1.3E-06	1.3E-06	
OCDD	5.67X10 <sup>-4</sup>	NRL	2.0E-06	1.2E-06	1.1E-06	1.6E-06	1.6E-06	9.8E-07	7.7E-07	9.5E-07	9.5E-07	
OCDF	5.67X10 <sup>-4</sup>	NRL	2.4E-06	1.4E-06	1.2E-06	2.1E-06	1.7E-06	1.0E-06	8.5E-07	1.0E-06	1.1E-06	
Pesticides												
Dieldrin	NRL	NRL	0.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
PCBs												
Aroclor 1242	NRL	NRL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Aroclor 1248	NRL	NRL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Aroclor 1254	NRL	NRL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Aroclor 1260	NRL	NRL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Inorganic Metals												
Arsenic	11	50	10	10	10	10	10	10	10	10	10	
Beryllium	0.02	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Cadmium	NRL	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Copper	NRL	1,300	25	25	25	25	25	25	25	25	25	
Iron	NRL	NRL	100	100	100	100	100	100	100	100	100	
Lead	NRL	15	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Zinc	NRL	NRL	50	50	50	50	50	50	50	50	50	
Inorganic												
Ammonia	NRL	NRL	200	200	200	200	200	200	200	200	200	
Cyanide	NRL	200	10	10	10	10	10	10	10	10	10	

Table 2-2  
OU1 Regulatory Detection Limits for Chemicals of Concern: October 2004  
Wright-Patterson AFB, OH  
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REGULATORY LIMITS			DETECTION LIMITS							
Chemicals of Concern	ROD Compliance Level (µg/L)	MCL (µg/L)	LF08-MP013 (µg/L)	LF10-MW03A (µg/L)	LF10-MW05B (µg/L)	LF10-MW05B-DUP (µg/L)	LF10-MW05C (µg/L)	LF10-MW06A (µg/L)	LF10-MW06A-DUP (µg/L)	LF10-MW06B (µg/L)
VOCs										
Benzene	0.62	5.0	N	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Chloroform	0.28	NRL	O	1.0	1.0	1.0	1.0	1.0	1.0	1.0
trans-1,2-Dichloroethene	100	100	S	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Ethylbenzene	NRL	700	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Methylene Chloride	6.22	NRL	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Toluene	NRL	1,000	M	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Trichloroethene	3.03	5.0	P	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Vinyl Chloride	0.0283	2.0	L	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Xylenes	NRL	10,000	E	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SVOCs										
Benz(a)pyrene	NRL	NRL	S	NC	10	10	10	10	NC	10
Diethylphthalate	NRL	NRL	C	NC	10	10	10	10	NC	10
4-Methylphenol	NRL	NRL	O	NC	10	10	10	10	NC	10
Naphthalene	NRL	NRL	L	NC	10	10	10	10	NC	10
Dioxins										
Total HPCDD	5.67X10 <sup>-5</sup>	NRL	L	NC	1.1E-06	9.6E-07	1.6E-06	3.3E-08	NC	7.9E-07
1,2,3,4,6,7,8 HPCDF	5.67X10 <sup>-6</sup>	NRL	E	NC	8.2E-07	9.4E-07	1.4E-06	2.7E-06	NC	5.6E-07
1,2,3,4,7,8 HxCDD	5.67X10 <sup>-6</sup>	NRL	C	NC	9.9E-07	1.3E-06	1.5E-06	3.7E-06	NC	8.3E-07
2,3,7,8 TCDD	5.67X10 <sup>-7</sup>	3.00X10 <sup>-6</sup>	T	NC	2.0E-06	2.0E-06	3.2E-06	6.6E-06	NC	1.2E-06
2,3,7,8 TCDF	5.67X10 <sup>-6</sup>	NRL	E	NC	1.9E-06	2.3E-06	2.7E-06	1.6E-05	NC	1.4E-06
OCDD	5.67X10 <sup>-4</sup>	NRL	D	NC	2.1E-06	1.4E-06	2.0E-06	3.8E-06	NC	1.2E-06
OCDF	5.67X10 <sup>-4</sup>	NRL	W	NC	2.4E-06	1.4E-06	2.1E-06	4.4E-06	NC	1.2E-06
Pesticides										
Dieldrin	NRL	NRL	E	NC	0.05	0.05	0.05	0.05	NC	0.05
PCBs										
Aroclor 1242	NRL	NRL	L	NC	1.0	1.0	1.0	1.0	NC	1.0
Aroclor 1248	NRL	NRL	D	NC	1.0	1.0	1.0	1.0	NC	1.0
Aroclor 1254	NRL	NRL	R	NC	1.0	1.0	1.0	1.0	NC	1.0
Aroclor 1260	NRL	NRL	Y	NC	1.0	1.0	1.0	1.0	NC	1.0
Inorganic Metals										
Arsenic	11	50	-	10	10	10	10	10	NC	10
Beryllium	0.02	4.0	-	4.0	4.0	4.0	4.0	4.0	NC	4.0
Cadmium	NRL	5.0	-	5.0	5.0	5.0	5.0	5.0	NC	5.0
Copper	NRL	1,300	-	25	25	25	25	25	NC	25
Iron	NRL	NRL	-	100	100	100	100	100	NC	100
Lead	NRL	15	-	3.0	3.0	3.0	3.0	3.0	NC	3.0
Zinc	NRL	NRL	-	50	50	50	50	50	NC	50
Inorganic										
Ammonia	NRL	NRL	-	200	200	200	200	200	NC	200
Cyanide	NRL	200	-	10	10	10	10	10	NC	10

**Table 2-2**  
**OU1 Regulatory Detection Limits for Chemicals of Concern: October 2004**  
**Wright-Patterson AFB, OH**  
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	REGULATORY LIMITS		DETECTION LIMITS									
	ROD Compliance Level (µg/L)	MCL (µg/L)	LF10-MW07A (µg/L)	LF10-MW07A-DUP (µg/L)	LF10-MW07B (µg/L)	LF10-MW07C (µg/L)	LF10-MW08A-2 (µg/L)	LF10-MW08B (µg/L)	LF10-MW09A (µg/L)	LF10-MW09B (µg/L)	LF10-MW09C (µg/L)	
Chemicals of Concern												
VOCs												
Benzene	0.62	5.0	1.0	1.0	N	1.0	1.0	1.0	1.0	1.0	1.0	
Chloroform	0.28	NRL	1.0	1.0	O	1.0	1.0	1.0	1.0	1.0	1.0	
trans-1,2-Dichloroethene	100	100	0.5	0.5		0.5	0.5	0.5	0.5	0.5	0.5	
Ethylbenzene	NRL	700	1.0	1.0	S	1.0	1.0	1.0	1.0	1.0	1.0	
Methylene Chloride	6.22	NRL	1.0	1.0	A	1.0	1.0	1.0	1.0	1.0	1.0	
Toluene	NRL	1,000	1.0	1.0	M	1.0	1.0	1.0	1.0	1.0	1.0	
Trichloroethene	3.03	5.0	2.0	2.0	P	2.0	2.0	2.0	2.0	2.0	2.0	
Vinyl Chloride	0.0283	2.0	1.0	1.0	L	1.0	1.0	1.0	1.0	1.0	1.0	
Total Xylenes	NRL	10,000	1.0	1.0	E	1.0	1.0	1.0	1.0	1.0	1.0	
SVOCs												
Benzo(a)pyrene	NRL	NRL	10	10	S	10	10	10	10	10	10	
Diethylphthalate	NRL	NRL	10	10	C	10	10	10	10	10	10	
4-Methylphenol	NRL	NRL	10	10	O	10	10	10	10	10	10	
Naphthalene	NRL	NRL	10	10	L	10	10	10	10	10	10	
Dioxins												
Total HPCDD	5.67X10 <sup>-5</sup>	NRL	2.0E-06	6.2E-07	L	2.2E-06	8.6E-07	8.7E-07	8.4E-07	4.0E-06	6.6E-07	
1,2,3,4,6,7,8 HPCDF	5.67X10 <sup>-5</sup>	NRL	1.4E-06	5.7E-07	C	1.6E-06	6.5E-07	8.1E-07	5.4E-07	3.7E-06	5.8E-07	
1,2,3,4,7,8 HxCDD	5.67X10 <sup>-6</sup>	NRL	2.9E-06	8.4E-07	T	2.7E-06	8.8E-07	8.7E-07	8.1E-07	3.9E-06	9.2E-07	
2,3,7,8 TCDD	5.67X10 <sup>-7</sup>	3.00X10 <sup>-6</sup>	3.5E-06	1.4E-06	E	4.7E-06	1.2E-06	1.5E-06	1.6E-06	9.1E-06	2.0E-06	
2,3,7,8 TCDF	5.67X10 <sup>-6</sup>	NRL	3.5E-06	1.4E-06	D	6.8E-06	1.3E-06	1.5E-06	1.5E-06	9.0E-06	1.8E-06	
OCDD	5.67X10 <sup>-4</sup>	NRL	1.9E-06	7.5E-07		2.6E-06	9.1E-07	1.1E-06	8.3E-07	4.5E-06	1.2E-06	
OCDF	5.67X10 <sup>-4</sup>	NRL	2.2E-06	1.3E-06	W	2.8E-06	9.7E-07	1.0E-06	1.2E-06	5.1E-06	1.3E-06	
Pesticides												
Dieldrin	NRL	NRL	0.05	0.05	E	0.05	0.05	0.05	0.05	0.05	0.05	
PCBs												
Aroclor 1242	NRL	NRL	1.0	1.0	L	1.0	1.0	1.0	1.0	1.0	1.0	
Aroclor 1248	NRL	NRL	1.0	1.0	D	1.0	1.0	1.0	1.0	1.0	1.0	
Aroclor 1254	NRL	NRL	1.0	1.0	R	1.0	1.0	1.0	1.0	1.0	1.0	
Aroclor 1260	NRL	NRL	1.0	1.0	Y	1.0	1.0	1.0	1.0	1.0	1.0	
Inorganic Metals												
Arsenic	11	50	10	10	--	10	10	10	10	10	10	
Beryllium	0.02	4.0	4.0	4.0	--	4.0	4.0	4.0	4.0	4.0	4.0	
Cadmium	NRL	5.0	5.0	5.0	--	5.0	5.0	5.0	5.0	5.0	5.0	
Copper	NRL	1,300	25	25	--	25	25	25	25	25	25	
Iron	NRL	NRL	100	100	--	100	100	100	100	100	100	
Lead	NRL	15	3.0	3.0	--	3.0	3.0	3.0	3.0	3.0	3.0	
Zinc	NRL	NRL	50	50	--	50	50	50	50	50	50	
Inorganic												
Ammonia	NRL	NRL	200	200	--	200	200	200	200	200	200	
Cyanide	NRL	200	10	10	--	10	10	10	10	10	10	

**Table 2-2**  
**OU1 Regulatory Detection Limits for Chemicals of Concern: October 2004**  
**Wright-Patterson AFB, OH**  
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		REGULATORY LIMITS		DETECTION LIMITS						
	ROD Compliance Level (µg/L)	MCL (µg/L)	LF10-MW10C (µg/L)	LF10-MW10C-AMB (µg/L)	LF10-MW11A (µg/L)	LF10-MW11B (µg/L)	LF10-MW11B-DUP (µg/L)	LF10-MW102 (µg/L)	LF10-MW103 (µg/L)	
Chemicals of Concern										
VOCs										
Benzene	0.62	5.0	1.0	1.0	1.0	1.0	1.0	N	1.0	
Chloroform	0.28	NRL	1.0	1.0	1.0	1.0	1.0	O	1.0	
trans-1,2-Dichloroethene	100	100	0.5	0.5	0.5	0.5	0.5		0.5	
Ethylbenzene	NRL	700	1.0	1.0	1.0	1.0	1.0	S	1.0	
Methylene Chloride	6.22	NRL	1.0	1.0	1.0	1.0	1.0	A	1.0	
Toluene	NRL	1,000	1.0	1.0	1.0	1.0	1.0	M	1.0	
Trichloroethene	3.03	5.0	2.0	2.0	2.0	2.0	2.0	P	2.0	
Vinyl Chloride	0.0283	2.0	1.0	1.0	1.0	1.0	1.0	L	1.0	
Total Xylenes	NRL	10,000	1.0	1.0	1.0	1.0	1.0	E	1.0	
SVOCs										
Benzo(a)pyrene	NRL	NRL	10	NC	10	10	10	S	10	
Diethylphthalate	NRL	NRL	10	NC	10	10	10	C	10	
4-Methylphenol	NRL	NRL	10	NC	10	10	10	O	10	
Naphthalene	NRL	NRL	10	NC	10	10	10	L	10	
Dioxins										
Total HPCDD	5.67X10 <sup>-6</sup>	NRL	2.0E-06	NC	7.6E-07	7.7E-07	6.3E-07	L	1.6E-06	
1,2,3,4,6,7,8 HPCDF	5.67X10 <sup>-6</sup>	NRL	1.3E-06	NC	6.2E-07	5.9E-07	4.9E-07	E	1.6E-06	
1,2,3,4,7,8 HxCDD	5.67X10 <sup>-6</sup>	NRL	1.6E-06	NC	1.1E-06	8.9E-07	7.6E-07	C	1.6E-06	
2,3,7,8 TCDD	5.67X10 <sup>-7</sup>	3.00X10 <sup>-6</sup>	3.2E-06	NC	1.7E-06	1.8E-06	1.5E-06	T	1.6E-06	
2,3,7,8 TCDF	5.67X10 <sup>-6</sup>	NRL	3.1E-06	NC	1.5E-06	1.4E-06	1.2E-06	E	3.5E-06	
OCDD	5.67X10 <sup>-4</sup>	NRL	2.6E-06	NC	1.0E-06	8.3E-07	8.8E-07	D	3.4E-06	
OCDF	5.67X10 <sup>-4</sup>	NRL	2.5E-06	NC	1.3E-06	1.0E-06	9.2E-07	W	2.2E-06	
Pesticides										
Dieldrin	NRL	NRL	0.05	NC	0.05	0.05	0.05	E	0.05	
PCBs										
Aroclor 1242	NRL	NRL	1.0	NC	1.0	1.0	1.0	L	1.0	
Aroclor 1248	NRL	NRL	1.0	NC	1.0	1.0	1.0	D	1.0	
Aroclor 1254	NRL	NRL	1.0	NC	1.0	1.0	1.0	R	1.0	
Aroclor 1260	NRL	NRL	1.0	NC	1.0	1.0	1.0	Y	1.0	
Inorganic Metals										
Arsenic	11	50	10	NC	10	10	10	-	10	
Beryllium	0.02	4.0	4.0	NC	4.0	4.0	4.0	-	4.0	
Cadmium	NRL	5.0	5.0	NC	5.0	5.0	5.0	-	5.0	
Copper	NRL	1,300	25	NC	25	25	25	-	25	
Iron	NRL	NRL	100	NC	100	100	100	-	100	
Lead	NRL	15	3.0	NC	3.0	3.0	3.0	-	3.0	
Zinc	NRL	NRL	50	NC	50	50	50	-	50	
Inorganic										
Ammonia	NRL	NRL	200	NC	200	200	200	-	200	
Cyanide	NRL	200	10	NC	10	10	10	-	10	

**Table 2-2**  
**OU1 Regulatory Detection Limits for Chemicals of Concern: October 2004**  
**Wright-Patterson AFB, OH**  
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Chemicals of Concern	REGULATORY LIMITS		DETECTION LIMITS				
	ROD Compliance Level (µg/L)	MCL (µg/L)	LF10-MW104 (µg/L)	LF10-MW105 (µg/L)	01-DM-102S-M (µg/L)	01-DM-102D-M (µg/L)	01-004-M (µg/L)
<b>VOCs</b>							
Benzene	0.62	5.0	N	1.0	N	1.0	1.0
Chloroform	0.28	NRL	O	1.0	O	1.0	1.0
trans-1,2-Dichloroethene	100	100		0.5		0.5	0.5
Ethylbenzene	NRL	700	S	1.0	S	1.0	1.0
Methylene Chloride	6.22	NRL	A	1.0	A	1.0	1.0
Toluene	NRL	1,000	M	1.0	M	1.0	1.0
Trichloroethene	3.03	5.0	P	2.0	P	2.0	2.0
Vinyl Chloride	0.0283	2.0	L	1.0	L	1.0	1.0
Total Xylenes	NRL	10,000	E	1.0	E	1.0	1.0
<b>SVOCs</b>							
Benzo(a)pyrene	NRL	NRL	S	10	S	10	10
Diethylphthalate	NRL	NRL	C	10	C	10	10
4-Methylphenol	NRL	NRL	O	10	O	10	10
Naphthalene	NRL	NRL	L	10	L	10	10
<b>Dioxins</b>							
Total HPCDD	5.67X10 <sup>-5</sup>	NRL	L	NC	L	8.2E-07	7.4E-07
1,2,3,4,6,7,8 HPCDF	5.67X10 <sup>-5</sup>	NRL	E	NC	E	6.4E-07	7.7E-07
1,2,3,4,7,8 HxCDD	5.67X10 <sup>-6</sup>	NRL	T	NC	T	7.8E-07	8.4E-07
2,3,7,8 TCDD	5.67X10 <sup>-7</sup>	3.00X10 <sup>-5</sup>	E	NC	E	1.2E-06	1.4E-06
2,3,7,8 TCDF	5.67X10 <sup>-6</sup>	NRL	D	NC	D	1.2E-06	1.7E-06
OCDD	5.67X10 <sup>-4</sup>	NRL	W	NC	W	8.4E-07	1.0E-06
OCDF	5.67X10 <sup>-4</sup>	NRL	E	NC	E	8.5E-07	8.9E-07
<b>Pesticides</b>							
Dieldrin	NRL	NRL	L	0.05	L	0.05	0.05
<b>PCBs</b>							
Aroclor 1242	NRL	NRL	L	1.0	L	1.0	1.0
Aroclor 1248	NRL	NRL	D	1.0	D	1.0	1.0
Aroclor 1254	NRL	NRL	R	1.0	R	1.0	1.0
Aroclor 1260	NRL	NRL	Y	1.0	Y	1.0	1.0
<b>Inorganic Metals</b>							
Arsenic	11	50	-	10	-	10	10
Beryllium	0.02	4.0	-	4.0	-	4.0	4.0
Cadmium	NRL	5.0	-	5.0	-	5.0	5.0
Copper	NRL	1,300	-	25	-	25	25
Iron	NRL	NRL	-	100	-	100	100
Lead	NRL	15	-	3.0	-	3.0	3.0
Zinc	NRL	NRL	-	50	-	50	50
<b>Inorganic</b>							
Ammonia	NRL	NRL	-	200	-	200	200
Cyanide	NRL	200	-	10	-	10	10

NA - Not Applicable  
MCL - Maximum Contaminant Level  
VOCs - Volatile Organic Compounds  
SVOCs - Semivolatile Organic Compounds  
NC - Not Collected. Well was not sampled for this chemical or well went dry.  
NRL - No Regulatory Limit set for these chemicals

NA - Not Applicable  
MCL - Maximum Contaminant Level  
VOCs - Volatile Organic Compounds  
SVOCs - Semivolatile Organic Compounds  
NC - Not Collected. Well was not sampled for this chemical or well went dry.  
NRL - No Regulatory Limit set for these chemicals

**Table 2-3**  
**Landfill 8 Groundwater Analytical Results Summary - VOCs**  
**Wright-Patterson AFB, Ohio**  
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LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	CHLOROFORM	TRANS-1,2-DCE	METHYLENE CHLORIDE	MTBE	TCE	VINYL CHLORIDE
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compliance Level - ROD		0.62	NCL	NCL	NCL	0.28	100	6.22	NCL	3.03	0.0283
Compliance Level - MCL		5	1000	700	10000	NCL	100	NCL	NCL	5	2
LF08-MW02A	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	26-Oct-98	ND	ND	ND	ND	ND	ND	1.1	NS	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	23-Oct-00	ND	ND	ND	ND	ND	ND	0.55 J	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW02C	05-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	26-Oct-98	ND	ND	ND	ND	ND	ND	1.2	NS	ND	ND
	12-Oct-99	0.37 J	0.34 J	ND	ND	ND	ND	ND	NS	ND	ND
	12-Oct-99	0.35 J	0.32 J	ND	ND	ND	ND	ND	NS	ND	ND
	23-Oct-00	ND	ND	ND	ND	ND	ND	0.46 J	ND	ND	ND
	23-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	21-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Oct-03	0.20 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW05B	31-May-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	09-Sep-91	(1 J)	0.5 J	ND	ND	ND	ND	ND	NS	ND	ND
	27-Jan-92	(0.8 J)	ND	ND	ND	ND	ND	ND	NS	ND	ND
	02-Nov-00	0.17 J	0.19 J	ND	ND	ND	ND	0.20 J	ND	0.40 J	(0.38 J)
	23-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	23-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02-Oct-01	0.17 J	0.20 J	ND	ND	ND	ND	ND	ND	0.26 J	(0.18 J)
	02-Oct-01	0.18 J	0.21 J	ND	ND	ND	ND	ND	ND	0.24 J	(0.23 J)
	29-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	0.33 J	(0.16 J)
	29-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	0.34 J	ND
	03-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	28-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05-Oct-04	0.34 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05-Oct-04	0.35 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW08A	15-May-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	10-Sep-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Feb-92	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	24-Oct-00	ND	ND	ND	ND	ND	ND	0.81 J.B	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	13-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	13-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW08B	15-May-91	(<1 J)	ND	ND	ND	ND	ND	<2 J	NS	ND	(<2 J)
	24-Oct-00	ND	ND	ND	ND	ND	ND	0.39 J.B	ND	ND	ND
	24-Oct-00	ND	ND	ND	ND	ND	ND	0.40 J.B	ND	ND	ND
	24-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09-Oct-01	ND	0.19 J	ND	ND	ND	ND	ND	ND	ND	ND
	29-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	14-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW08C	15-May-91	ND	<1 J	ND	ND	ND	ND	<2 J	NS	ND	(<2 J)
	16-Jan-92	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	24-Oct-00	ND	0.13 J	ND	ND	ND	ND	0.31 J.B	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	16-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW09A	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	(29)	NS	ND	ND
	22-Oct-98	(1.1)	1.3	0.33 J	1.87	ND	ND	3.1	NS	ND	ND
	12-Oct-99	0.43 J	0.67	ND	ND	ND	ND	ND	NS	ND	ND
	23-Oct-00	(1.8)	6.4	0.82 J	4.9	ND	ND	0.37 J	ND	ND	ND
	24-Apr-01	ND	ND	ND	ND	ND	ND	0.35 J.B	ND	ND	ND
	08-Oct-01	ND	0.52 J	ND	ND	ND	ND	ND	ND	ND	ND
	29-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	14-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	14-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	18-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

**Table 2-3**  
**Landfill 8 Groundwater Analytical Results Summary - VOCs**  
**Wright-Patterson AFB, Ohio**  
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WPAFB  
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Chapter 2  
September 2, 2005

LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	CHLOROFORM	TRANS-1,2-DCE	METHYLENE CHLORIDE	MTBE	TCE	VINYL CHLORIDE
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compliance Level - ROD		0.62	NCL	NCL	NCL	0.28	100	6.22	NCL	3.03	0.0283
Compliance Level - MCL		5	1000	700	10000	NCL	100	NCL	NCL	5	2
LF08-MW09B	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	3.2	NS	ND	ND
	22-Oct-98	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	23-Oct-00	ND	0.27 J	ND	ND	ND	ND	0.30 J	ND	ND	ND
	08-Oct-01	ND	0.29 J	ND	ND	ND	ND	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	14-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	18-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW10A	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	19-Oct-98	ND	ND	ND	ND	ND	ND	0.31 J	NS	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	25-Oct-00	ND	0.20 J	ND	ND	ND	ND	0.25 J	ND	ND	ND
	03-Oct-01	ND	0.19 J	ND	ND	ND	ND	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	20-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW10B	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	(9.0)
	01-Nov-97	ND	ND	ND	ND	ND	ND	ND	NS	ND	(6.4)
	19-Oct-98	ND	ND	ND	ND	ND	ND	0.45 J	NS	ND	(10)
	18-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	(8.2)
	25-Oct-00	ND	0.24 J	ND	ND	ND	0.11 J	0.38 J	ND	ND	(8.2)
	24-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	(7.4)
	03-Oct-01	ND	0.22 J	ND	ND	ND	ND	ND	ND	ND	(6.2)
	29-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	(6.6)
	14-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	(7.1)
	15-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	(5.2)
	06-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	(5.1)
	19-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	(4.4)
LF08-MW10C	12-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	(5.1)
	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	(6.0)
	01-Nov-97	ND	ND	ND	ND	ND	ND	(29)	NS	ND	(3.6)
	29-Oct-98	ND	ND	ND	ND	ND	0.22 J	ND	NS	ND	(4.4)
	20-Oct-99	(0.64)	ND	ND	ND	ND	0.38 J	ND	NS	0.33 J	(2.5)
	25-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	03-Oct-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11-Oct-02	ND	ND	ND	ND	(11)	ND	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND	(10)	ND	ND	ND	ND	ND
	20-Oct-04	ND	ND	ND	ND	(0.48 J)	ND	ND	ND	ND	ND
LF08-MW11A	08-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09-Oct-03	0.21 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	13-Oct-04	0.37 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW11B	24-Apr-01	ND	ND	ND	ND	ND	ND	0.34 J.B	ND	ND	ND
	09-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-May-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	21-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW11C	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW101	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NS	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NS	DRY	DRY
	22-Oct-98	ND	0.84	ND	ND	ND	ND	2.3	NS	ND	ND
	20-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	24-Oct-00	ND	0.15 J	ND	ND	ND	ND	0.33 J.B	ND	ND	ND
	24-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	29-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Oct-03	0.26 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	14-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

**Table 2-3**  
**Landfill 8 Groundwater Analytical Results Summary - VOCs**  
**Wright-Patterson AFB, Ohio**  
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LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	CHLOROFORM	TRANS-1,2-DCE	METHYLENE CHLORIDE	MTBE	TCE	VINYL CHLORIDE
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compliance Level - ROD		0.62	NCL	NCL	NCL	0.28	100	6.22	NCL	3.03	0.0283
Compliance Level - MCL		5	1000	700	10000	NCL	100	NCL	NCL	5	2
LF08-MW102	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NS	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NS	DRY	DRY
	22-Oct-98	ND	ND	ND	ND	ND	ND	1.1	NS	ND	ND
	19-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	18-Oct-00	ND	0.29 J	ND	ND	ND	ND	ND	ND	ND	ND
	24-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	29-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	14-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW103	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NS	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NS	DRY	DRY
	26-Oct-98	ND	ND	ND	ND	ND	ND	0.91	NS	ND	ND
	19-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	24-Oct-00	ND	0.19 J	ND	ND	ND	ND	0.33 J.B	ND	ND	ND
	24-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Oct-01	ND	0.33 J	ND	ND	ND	ND	ND	ND	ND	ND
	29-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07-Oct-02	(0.97 J)	ND	ND	1.2	ND	ND	ND	22	ND	ND
	10-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	14-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
02-DM-81S-M	01-Jun-86	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	15-May-91	ND	ND	ND	ND	ND	ND	<2 J	NS	ND	ND
	16-Sep-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	28-Jan-92	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Sep-98	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	27-Oct-00	ND	0.16 J	ND	ND	ND	ND	0.44 J	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09-Oct-03	ND	0.20 J	ND	ND	ND	ND	ND	ND	ND	ND
	05-Oct-04	ND	0.19 J	ND	ND	ND	ND	ND	ND	ND	ND
02-DM-81D-M	01-Jun-86	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	15-May-91	ND	<1 J	ND	ND	ND	ND	<2 J	NS	ND	(<2 J)
	16-Sep-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	28-Jan-92	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Sep-98	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	30-Oct-00	ND	0.16 J	ND	ND	ND	ND	ND	ND	ND	ND
	23-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	29-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	22-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	13-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	23-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
02-DM-82-M	01-Jun-86	ND	ND	ND	ND	(<5)	ND	ND	NS	ND	ND
	13-May-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	17-Sep-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Feb-92	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Sep-98	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	30-Oct-00	ND	ND	ND	ND	ND	ND	0.23 J.B	ND	ND	ND
	23-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04-Oct-01	ND	0.24 J	ND	ND	ND	ND	ND	ND	ND	ND
	30-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	21-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	28-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
02-DM-83S-M	01-Jun-86	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	13-May-91	(1 J)	ND	ND	ND	ND	1.0	<2 J	NS	ND	(<2 J)
	11-Sep-91	(1 J)	ND	ND	ND	ND	1.0	ND	NS	ND	(4.0)
	17-Jan-92	(1 J)	ND	ND	ND	ND	2.0	ND	NS	ND	(8.0)
	17-Jan-92	(0.9 J)	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Sep-98	(2.0)	ND	ND	ND	(6.0)	3.0	ND	NS	ND	(3.0)
	31-Oct-00	0.56 J	ND	ND	ND	ND	0.34 J	0.82 J	ND	ND	(6.6)
	25-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	(6.1)
	05-Oct-01	(0.66 J)	ND	ND	ND	ND	ND	ND	ND	ND	(3.5)
	29-Apr-02	0.40 JD	ND	0.22 JD	ND	(0.96 JD)	ND	ND	ND	ND	(2.6 D)
	10-Oct-02	(0.80 J)	ND	ND	ND	ND	ND	ND	ND	ND	(5.8)
	22-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	(3.7 D)
	08-Oct-03	(0.66 JD)	ND	ND	ND	ND	ND	ND	ND	ND	(3.5 D)
	23-Apr-04	0.42 J	ND	ND	ND	ND	ND	ND	ND	ND	(1.9)
	20-Oct-04	(0.62 JD)	ND	ND	ND	ND	ND	ND	ND	ND	(0.67 JD)



**Table 2-3**  
**Landfill 8 Groundwater Analytical Results Summary - VOCs**  
**Wright-Patterson AFB, Ohio**  
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LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	CHLOROFORM	TRANS-1,2-DCE	METHYLENE CHLORIDE	MTBE	TCE	VINYL CHLORIDE
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compliance Level - ROD		0.62	NCL	NCL	NCL	0.28	100	6.22	NCL	3.03	0.0283
Compliance Level - MCL		5	1000	700	10000	NCL	100	NCL	NCL	5	2
02-DM-83D-M	01-Jun-86	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	13-May-91	ND	ND	ND	ND	ND	ND	<2 J	NS	ND	ND
	16-Sep-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	02-Feb-92	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Sep-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	31-Oct-00	ND	ND	ND	ND	ND	ND	0.22 J	ND	ND	ND
	31-Oct-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
02-DM-84-M	20-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Jun-86	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	13-May-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	16-Sep-91	1 J	ND	ND	ND	ND	0.6 J	ND	NS	ND	ND
	01-Feb-92	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Sep-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	27-Oct-00	(0.79 J)	ND	ND	ND	ND	ND	0.51 J	ND	ND	ND
	02-Oct-01	(0.76 J)	0.22 J	ND	ND	ND	ND	ND	ND	ND	ND
	16-Oct-02	(0.88 J)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Oct-03	(0.96 J)	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MP013*	18-Oct-04	(0.84 J)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	18-Oct-04	(0.93 J)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-May-02	ND	ND	ND	ND	ND	ND	ND	ND	(24 D)	ND
	17-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	(58 D)	ND
	23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	(4.6)	ND
	10-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	(17)	ND
	23-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	(8.2)	ND
	20-Oct-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
LF08/10-EFF	28-Jul-04	0.26 J	ND	ND	ND	(3.9)	ND	ND	ND	ND	ND
LF08/10-EFF	21-Oct-04	0.47 J	ND	ND	ND	(1.6)	0.19 J	ND	ND	0.44 J	(0.69 J)

VOC - Volatile Organic Compound  
ROD - Record of Decision  
MCL - Maximum Contaminant Level  
NCL - No Compliance Level set for these chemicals  
( ) - Concentration exceeds a compliance level.  
\* - Sampling location LF08-MP013 is a soil vapor monitoring point sampled for groundwater.

ND - Not Detected  
NS - Not Sampled  
B - Method blank contamination.  
D - Result obtained from the analysis of a dilution.  
J - Estimated result, result less than reporting limit.

µg/L - micrograms per liter  
DCE - Dichloroethene  
TCE - Trichloroethene  
MTBE - Methyl tert-butyl ether  
E - Estimated result, concentration out of calibration range

See Appendix C-1 for additional October 2004 VOC detections not listed here.

**Table 2-4**  
**Landfill 8 Groundwater Analytical Results Summary - SVOCs**  
**Wright-Patterson AFB, Ohio**  
**Page 1 of 3**

LOCATION	DATE	4-METHYL- PHENOL	BENZO(A) PYRENE	DIETHYL- PHTHALATE	NAPHTHALENE
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	0.2	NCL	NCL
LF08-MW02A	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	26-Oct-98	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND
	23-Oct-00	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND
	01-Oct-03	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND
LF08-MW02C	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	26-Oct-98	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND
	23-Oct-00	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND
	01-Oct-03	ND	ND	ND	ND
LF08-MW05B	06-Oct-04	ND	ND	ND	ND
	02-Nov-00	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND
	Duplicate 02-Oct-01	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND
	Duplicate 03-Oct-02	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND
	Duplicate 09-Oct-03	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND
LF08-MW08A	Duplicate 05-Oct-04	ND	ND	ND	ND
	24-Oct-00	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND
	13-Oct-03	ND	ND	ND	ND
	Duplicate 13-Oct-03	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND
	24-Oct-00	ND	ND	ND	ND
	Duplicate 24-Oct-00	ND	ND	ND	ND
LF08-MW08B	09-Oct-01	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND
LF08-MW08C	24-Oct-00	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND
	16-Oct-03	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND
LF08-MW09A	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	22-Oct-98	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND
	23-Oct-00	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND
	14-Oct-03	ND	ND	ND	ND
	18-Oct-04	NC	NC	NC	NC
LF08-MW09B	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	22-Oct-98	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND
	23-Oct-00	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND
	14-Oct-03	ND	ND	ND	ND
	18-Oct-04	ND	ND	ND	ND

**Table 2-4**  
**Landfill 8 Groundwater Analytical Results Summary - SVOCs**  
**Wright-Patterson AFB, Ohio**  
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LOCATION	DATE	4-METHYL- PHENOL	BENZO(A) PYRENE	DIETHYL- PHTHALATE	NAPHTHALENE
Units		(ug/L)	(ug/L)	(ug/L)	(ug/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	0.2	NCL	NCL
LF08-MW10A	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	19-Oct-98	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND
	20-Oct-04	ND	ND	ND	ND
LF08-MW10B	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	19-Oct-98	ND	ND	ND	ND
	18-Oct-99	ND	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND
	12-Oct-04	ND	ND	ND	ND
LF08-MW10C	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	29-Oct-98	ND	ND	ND	ND
	20-Oct-99	ND	ND	ND	ND
	25-Oct-00	DRY	DRY	DRY	DRY
	03-Oct-01	DRY	DRY	DRY	DRY
	11-Oct-02	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND
	20-Oct-04	ND	ND	ND	ND
LF08-MW11A	08-Oct-02	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND
	13-Oct-04	ND	ND	ND	ND
LF08-MW11B	09-Oct-01	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND
	08-Oct-03	ND	ND	ND	ND
	13-Oct-04	ND	ND	ND	ND
LF08-MW11C	09-Oct-02	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND
	13-Oct-04	ND	ND	ND	ND
LF08-MW101	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY
	22-Oct-98	ND	ND	ND	ND
	20-Oct-99	ND	ND	ND	ND
	24-Oct-00	ND	ND	ND	ND
	01-Oct-01	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND
	01-Oct-03	ND	ND	ND	ND
	04-Oct-04	ND	ND	ND	ND
LF08-MW102	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY
	22-Oct-98	ND	ND	ND	0.5
	19-Oct-99	ND	ND	ND	ND
	18-Oct-00	ND	ND	ND	ND
	01-Oct-01	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND

**Table 2-4**  
**Landfill 8 Groundwater Analytical Results Summary - SVOCs**  
**Wright-Patterson AFB, Ohio**  
**Page 3 of 3**

LOCATION	DATE	4-METHYL- PHENOL	BENZO(A) PYRENE	DIETHYL- PHTHALATE	NAPHTHALENE
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	0.2	NCL	NCL
LF08-MW103	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY
	26-Oct-98	ND	ND	ND	ND
	19-Oct-99	ND	ND	ND	ND
	24-Oct-00	ND	ND	ND	ND
	01-Oct-01	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND
02-DM-81S-M	27-Oct-00	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND
	09-Oct-03	0.84 J	ND	ND	ND
	05-Oct-04	1.0 J	ND	ND	ND
02-DM-81D-M	30-Oct-00	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND
	13-Oct-03	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND
02-DM-82-M	30-Oct-00	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND
	01-Oct-02	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND
02-DM-83S-M	31-Oct-00	ND	ND	ND	ND
	05-Oct-01	ND	ND	ND	ND
	10-Oct-02	ND	ND	ND	ND
	08-Oct-03	ND	ND	ND	ND
	20-Oct-04	ND	ND	ND	ND
02-DM-83D-M Duplicate	31-Oct-00	ND	ND	ND	ND
	31-Oct-00	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND
	10-Oct-02	ND	ND	ND	ND
	08-Oct-03	ND	ND	ND	ND
02-DM-84-M Duplicate	20-Oct-04	ND	ND	ND	ND
	27-Oct-00	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND
	16-Oct-02	ND	ND	ND	ND
	01-Oct-03	ND	ND	ND	ND
LF08-MP013	18-Oct-04	ND	ND	ND	ND
	18-Oct-04	ND	ND	ND	ND
LF08-MP013	17-Oct-02	ND	ND	ND	ND

NC - Not Collected. Insufficient Water.  
NCL - No Compliance Level set for these chemicals.  
ND - Not detected  
µg/L = micrograms per liter

**Table 2-5**  
**Landfill 8 Groundwater Analytical Results Summary - Dioxins**  
**Wright-Patterson AFB, Ohio**  
**Page 1 of 3**

WPAFB  
Final  
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LOCATION	DATE	Total-HpCDD	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8-HxCDD	2,3,7,8-TCDD	2,3,7,8-TCDF	OCDD	OCDF
Units		(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)
Compliance Level - ROD		56.7	56.7	5.67	0.567	5.67	567	567
Compliance Level - MCL		NCL	NCL	NCL	30	NCL	NCL	NCL
LF08-MW02A	26-Oct-98	ND	ND	ND	ND	ND	3.4 JBQ	ND
	12-Oct-99	0.64 JQ	ND	ND	ND	ND	4.7 JB	ND
	23-Oct-00	ND	ND	ND	ND	ND	2.3 JBQ	ND
	03-Oct-01	ND	0.76 J	ND	ND	ND	4.3 JB	47 J
	02-Oct-02	NC	NC	NC	NC	NC	NC	NC
	01-Oct-03	ND	ND	ND	ND	ND	2.0 JB	ND
	05-Oct-04	ND	1.5 JB	ND	ND	ND	8.7 JB	4.5 JBQ
LF08-MW02C	26-Oct-98	ND	ND	ND	ND	ND	2.4 JBQ	ND
	12-Oct-99	ND	ND	ND	ND	ND	1.4 JB	ND
	Duplicate 12-Oct-99	ND	ND	ND	ND	ND	1.8 JBQ	ND
	23-Oct-00	ND	ND	ND	ND	ND	6.1 JB	ND
	04-Oct-01	ND	ND	ND	ND	ND	9.3 JBQ	ND
	02-Oct-02	1.8 JBQ	2.0 JBQ	(8.6 JB)	ND	ND	6.5 JB	4.6 JB
	01-Oct-03	ND	ND	ND	ND	ND	ND	ND
	06-Oct-04	1.5 JBQ	1.2 JB	ND	ND	ND	5.1 JB	2.0 JBQ
LF08-MW05B	02-Nov-00	ND	0.43 JQ	ND	ND	ND	2.2 JBQ	ND
	02-Oct-01	ND	ND	ND	ND	ND	4.9 JB	6.0 J
	Duplicate 02-Oct-01	ND	ND	ND	ND	ND	2.7 JB	ND
	03-Oct-02	ND	ND	ND	ND	ND	3.7 JB	3.3 JBQ
	Duplicate 03-Oct-02	1.5 JBQ	ND	ND	ND	ND	5.2 JB	3.7 JBQ
	09-Oct-03	ND	ND	ND	ND	ND	2.9 JB	ND
	Duplicate 09-Oct-03	ND	ND	ND	ND	ND	1.8 JBQ	ND
	05-Oct-04	ND	1.1 JBQ	ND	ND	ND	8.3 JB	5.0 JBQ
	Duplicate 05-Oct-04	ND	ND	ND	ND	ND	10 JB	6.8 JB
LF08-MW08A	24-Oct-00	ND	ND	ND	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND	16 JB	23 J
	08-Oct-02	ND	ND	ND	ND	ND	4.7 JB	ND
	13-Oct-03	ND	ND	ND	ND	ND	1.6 JBQ	ND
	Duplicate 13-Oct-03	ND	ND	ND	ND	ND	2.4 JBQ	ND
	05-Oct-04	1.9 JB	1.2 JBQ	ND	ND	ND	4.7 JB	4.2 JB
LF08-MW08B	24-Oct-00	ND	ND	ND	ND	ND	4.2 JB	ND
	Duplicate 24-Oct-00	ND	ND	ND	ND	ND	7.7 JB	ND
	09-Oct-01	ND	ND	ND	ND	ND	4.1 JB	ND
	08-Oct-02	ND	1.8 JB	ND	ND	ND	6.7 JBQ	3.5 JB
	09-Oct-03	ND	ND	ND	ND	ND	ND	ND
	05-Oct-04	1.8 JBQ	1.7 JB	ND	ND	ND	7.5 JB	5.9 JB
LF08-MW08C	24-Oct-00	ND	ND	ND	(2.2 JQ)	ND	13 JB	ND
	02-Oct-01	14 JQ	14 JQ	ND	ND	5.2 JQ	100 B	39 J
	08-Oct-02	13 JBQ	40 JB	ND	ND	ND	59 JB	320 B
	16-Oct-03	ND	ND	ND	ND	ND	7.6 JBQS	ND
	05-Oct-04	ND	ND	ND	ND	ND	8.2 JBQ	ND
LF08-MW09A	22-Oct-98	ND	ND	ND	ND	ND	2.7 JB	ND
	12-Oct-99	ND	ND	ND	ND	ND	2.2 JB	ND
	23-Oct-00	ND	ND	ND	ND	ND	2.2 JBQ	ND
	08-Oct-01	ND	ND	ND	ND	ND	ND	ND
	14-Oct-02	NC	NC	NC	NC	NC	NC	NC
	14-Oct-03	NC	NC	NC	NC	NC	NC	NC
	18-Oct-04	NC	NC	NC	NC	NC	NC	NC
LF08-MW09B	22-Oct-98	ND	ND	ND	ND	ND	3.3 JB	ND
	12-Oct-99	ND	ND	ND	ND	ND	2.3 JB	ND
	23-Oct-00	ND	ND	ND	ND	ND	11 JBQ	ND
	08-Oct-01	ND	ND	ND	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND	ND	ND	ND
	14-Oct-03	ND	ND	ND	ND	ND	ND	ND
LF08-MW10A	19-Oct-98	ND	ND	ND	ND	ND	3.2 JB	ND
	12-Oct-99	ND	ND	ND	ND	ND	1.4 JBQ	ND
	25-Oct-00	ND	ND	ND	ND	ND	4.1 JB	ND
	03-Oct-01	ND	ND	ND	ND	ND	ND	2.6 JQ
	14-Oct-02	ND	ND	ND	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND	ND	2.5 JB	ND
	20-Oct-04	ND	ND	ND	ND	ND	3.3 JB	ND

**Table 2-5**  
**Landfill 8 Groundwater Analytical Results Summary - Dioxins**  
**Wright-Patterson AFB, Ohio**  
**Page 2 of 3**

LOCATION	DATE	Total-HpCDD	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8-HxCDD	2,3,7,8-TCDD	2,3,7,8-TCDF	OCDD	OCDF
Units		(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)
Compliance Level - ROD		56.7	56.7	5.67	0.567	5.67	567	567
Compliance Level - MCL		NCL	NCL	NCL	30	NCL	NCL	NCL
LF08-MW10B	19-Oct-98	ND	ND	ND	ND	ND	1.9 JBQ	ND
	18-Oct-99	0.55 J	0.26 JQ	ND	ND	ND	4.0 JB	0.83 JBQ
	25-Oct-00	ND	ND	ND	ND	ND	4.9 JB	ND
	03-Oct-01	ND	ND	ND	ND	ND	3.6 JBQ	ND
	14-Oct-02	ND	ND	ND	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND	ND	3.8 JB	ND
	12-Oct-04	ND	ND	ND	ND	ND	2.6 JBQ	ND
LF08-MW10C	29-Oct-98	ND	ND	ND	ND	ND	34 JB	ND
	20-Oct-99	0.96 JBQ	0.26 JBQ	ND	ND	ND	12 JB	0.5 JBQ
	25-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	03-Oct-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	11-Oct-02	ND	2.6 JB	ND	ND	ND	16 JB	ND
	06-Oct-03	ND	ND	ND	ND	ND	3.1 JB	ND
	20-Oct-04	NC	NC	NC	NC	NC	NC	NC
LF08-MW11A	08-Oct-02	ND	13 JB	ND	ND	ND	15 JB	78 JB
	09-Oct-03	ND	ND	ND	ND	ND	1.6 JBQ	ND
	13-Oct-04	ND	ND	ND	ND	ND	5.7 JB	ND
LF08-MW11B Duplicate	09-Oct-01	ND	ND	ND	ND	ND	2.4 JB	ND
	07-Oct-02	ND	ND	ND	ND	ND	7.7 JB	ND
	07-Oct-02	Analysis canceled						
	08-Oct-03	ND	ND	ND	ND	ND	2.8 JB	ND
	13-Oct-04	ND	ND	ND	ND	ND	3.7 JBQ	2.6 JBQ
LF08-MW11C	09-Oct-02	ND	ND	ND	ND	ND	10 JB	ND
	09-Oct-03	ND	ND	ND	ND	ND	1.9 JBQ	ND
	13-Oct-04	2.6 JB	ND	ND	ND	ND	3.7 JB	1.2 JBQ
LF08-MW101	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	22-Oct-98	(160 J)	7.3	ND	ND	ND	(1,000 B)	44 J
	20-Oct-99	11 JBQ	0.9 JB	ND	ND	ND	68 JB	4.3 JB
	24-Oct-00	13 JQ	ND	ND	ND	ND	57 JB	4.1 JBQ
	01-Oct-01	9.7 J	1.3 J	ND	ND	ND	44 JB	43 JB
	07-Oct-02	4.4 JB	2.5 JBQ	2.1 JBQ	ND	ND	27 JBQ	10 JBQ
	01-Oct-03	ND	ND	ND	ND	ND	2.9 JB	ND
	04-Oct-04	7.0 JB	2.7 JBQ	1.5 JBQ	ND	ND	15 JB	8.5 JB
LF08-MW102	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	22-Oct-98	20 JQ	1.8 J	ND	ND	ND	110 B	6.3 J
	19-Oct-99	1.3 JQ	ND	ND	ND	ND	5.6 JB	0.84 JB
	18-Oct-00	ND	ND	ND	ND	ND	3.6 JB	ND
	01-Oct-01	ND	ND	ND	ND	ND	6.3 JBQ	5.6 JBQ
	07-Oct-02	ND	ND	ND	ND	ND	19 JB	6.9 JBQ
	30-Sep-03	ND	ND	ND	ND	ND	2.4 JBQ	2.0 JB
	06-Oct-04	ND	ND	ND	ND	ND	6.5 JB	5.0 JBQ
LF08-MW103	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	26-Oct-98	(57 J)	2.9	ND	ND	ND	320 B	15 J
	19-Oct-99	ND	ND	ND	ND	ND	6.5 JB	2.3 JB
	24-Oct-00	1.7	ND	ND	ND	ND	23 JB	ND
	01-Oct-01	ND	ND	ND	ND	ND	5.9 JB	3.7 JB
	07-Oct-02	ND	ND	ND	ND	ND	14 JB	ND
	30-Sep-03	ND	ND	ND	ND	ND	6.6 JB	ND
02-DM-81S-M	06-Oct-04	1.5 JBQ	ND	ND	ND	ND	6.8 JB	ND
	27-Oct-00	ND	ND	ND	ND	ND	5.3 JB	ND
	02-Oct-01	ND	ND	ND	ND	ND	ND	2.8 JQ
	03-Oct-02	ND	ND	ND	ND	ND	2.4 JB	ND
	09-Oct-03	ND	ND	ND	ND	ND	3.3 JB	ND
	05-Oct-04	3.0 JB	1.5 JBQ	1.3 JBQ	ND	ND	9.4 JBQ	6.3 JB

**Table 2-5**  
**Landfill 8 Groundwater Analytical Results Summary - Dioxins**  
**Wright-Patterson AFB, Ohio**  
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WPAFB  
Final  
LTM Report: October 2004  
Chapter 2  
September 2, 2005

LOCATION	DATE	Total-HpCDD	1,2,3,4,6,7,8- HpCDF	1,2,3,4,7,8- HxCDD	2,3,7,8- TCDD	2,3,7,8- TCDF	OCDD	OCDF
Units		(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)
Compliance Level - ROD		56.7	56.7	5.67	0.567	5.67	567	567
Compliance Level - MCL		NCL	NCL	NCL	30	NCL	NCL	NCL
02-DM-81D-M	30-Oct-00	ND	ND	ND	(10 JQ)	ND	2.0 JB	ND
	02-Oct-01	ND	ND	ND	ND	ND	3.4 JBQ	6.4 JQ
	03-Oct-02	ND	ND	(15 J)	ND	ND	2.6 JB	1.2 JBQ
	13-Oct-03	ND	ND	ND	ND	ND	3.3 JB	1.6 JQ
	05-Oct-04	6.5 JBQ	4.4 JB	3.9 JBQ	ND	ND	14 JB	8.1 JBQ
02-DM-82-M	30-Oct-00	ND	ND	ND	ND	ND	3.5 JB	ND
	04-Oct-01	ND	ND	ND	ND	ND	ND	ND
	01-Oct-02	1.9 JBQ	2.0 JBQ	1.3 JBQ	ND	ND	8.4 JB	7.7 JB
	09-Oct-03	ND	ND	ND	ND	ND	3.4 JB	ND
	05-Oct-04	5.3 JBQ	2.7 JBQ	ND	ND	ND	12 JB	5.8 JB
02-DM-83S-M	31-Oct-00	5.1 J	0.94 J	ND	ND	ND	37 JB	ND
	05-Oct-01	3.7 JQ	7.9 J	ND	ND	ND	27 JB	500 B
	10-Oct-02	ND	ND	ND	ND	ND	13 JB	6.6 JBQ
	08-Oct-03	ND	ND	ND	ND	ND	3.5 JB	ND
	20-Oct-04	0.5 JB	ND	ND	ND	ND	3.2 JB	ND
02-DM-83D-M Duplicate	31-Oct-00	ND	ND	ND	(4.1 JQ)	ND	1.9 JBQ	ND
	31-Oct-00	ND	ND	ND	ND	ND	4.4 JB	1.0 JBQ
	02-Oct-01	ND	ND	ND	ND	ND	5.2 JB	5.8 J
	10-Oct-02	ND	ND	ND	ND	ND	13 JBQ	17 JB
	08-Oct-03	ND	ND	ND	ND	ND	4.0 JBQ	ND
02-DM-84-M Duplicate	20-Oct-04	ND	ND	ND	ND	ND	3.2 JBQ	2.2 JBQ
	27-Oct-00	ND	ND	ND	ND	ND	4.8 JBQ	ND
	02-Oct-01	ND	ND	ND	ND	ND	ND	2.6 JQ
	16-Oct-02	ND	ND	ND	ND	ND	ND	ND
	01-Oct-03	ND	ND	ND	ND	ND	1.0 JBQ	ND
	18-Oct-04	ND	0.43 JBQ	ND	ND	ND	2.8 JB	ND
	18-Oct-04	0.57 JBQ	ND	ND	ND	ND	3.4 JB	ND

( ) = Concentration exceeds a compliance level.  
NCL = No Compliance Level set for these chemicals.  
ND = Not Detected  
NC = Not Collected, Insufficient water.

pg/L = picograms per liter  
J = Estimated Result, Result less than reporting limit.  
B = Method Blank Contamination  
Q = Estimated Maximum Possible Concentration  
S = Ion Suppression

**Table 2-6**  
**Landfill 8 Groundwater Analytical Results Summary -**  
**Pesticides/PCBs**  
**Wright-Patterson AFB, Ohio**  
**Page 1 of 4**

LOCATION	DATE	AROCLOR	AROCLOR	AROCLOR	AROCLOR	DIELDRIN
		1242	1248	1254	1260	
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	NCL	NCL	NCL	NCL
LF08-MW02A	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	26-Oct-98	ND	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND
	23-Oct-00	ND	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND	ND
	01-Oct-03	ND	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND	ND
LF08-MW02C	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	26-Oct-98	ND	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND
	Duplicate 12-Oct-99	ND	ND	ND	ND	ND
	23-Oct-00	ND	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND	ND
	01-Oct-03	ND	ND	ND	ND	ND
LF08-MW05B	06-Oct-04	ND	ND	ND	ND	ND
	02-Nov-00	ND	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND
	Duplicate 02-Oct-01	ND	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND
	Duplicate 03-Oct-02	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND
	Duplicate 09-Oct-03	ND	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND	ND
LF08-MW08A	Duplicate 05-Oct-04	ND	ND	ND	ND	ND
	24-Oct-00	ND	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND	ND
	13-Oct-03	ND	ND	ND	ND	ND
	Duplicate 13-Oct-03	ND	ND	ND	ND	ND
LF08-MW08B	05-Oct-04	ND	ND	ND	ND	ND
	24-Oct-00	ND	ND	ND	ND	ND
	Duplicate 24-Oct-00	ND	ND	ND	ND	ND
	09-Oct-01	ND	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND
LF08-MW08C	05-Oct-04	ND	ND	ND	ND	ND
	24-Oct-00	ND	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND	ND
	16-Oct-03	ND	ND	ND	ND	ND
LF08-MW09A	05-Oct-04	ND	ND	ND	ND	ND
	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	22-Oct-98	ND	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND
	23-Oct-00	ND	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND	ND
	14-Oct-03	ND	ND	ND	ND	ND
	18-Oct-04	NC	NC	NC	NC	NC



**Table 2-6**  
**Landfill 8 Groundwater Analytical Results Summary -**  
**Pesticides/PCBs**  
**Wright-Patterson AFB, Ohio**  
**Page 2 of 4**

LOCATION	DATE	AROCLOR	AROCLOR	AROCLOR	AROCLOR	DIELDRIN
		1242	1248	1254	1260	
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	
		NCL	NCL	NCL	NCL	
Compliance Level - ROD		NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	NCL	NCL	NCL	NCL
LF08-MW09B	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	22-Oct-98	ND	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND
	23-Oct-00	ND	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND	ND
	14-Oct-03	ND	ND	ND	ND	ND
	18-Oct-04	ND	ND	ND	ND	ND
LF08-MW10A	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	19-Oct-98	ND	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND	ND
	20-Oct-04	ND	ND	ND	ND	ND
LF08-MW10B	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	19-Oct-98	ND	ND	ND	ND	ND
	18-Oct-99	ND	ND	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND	ND
	12-Oct-04	ND	ND	ND	ND	ND
LF08-MW10C	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	29-Oct-98	ND	ND	ND	ND	ND
	20-Oct-99	ND	ND	ND	ND	ND
	25-Oct-00	DRY	DRY	DRY	DRY	DRY
	03-Oct-01	DRY	DRY	DRY	DRY	DRY
	11-Oct-02	ND	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND	ND
	20-Oct-04	ND	ND	ND	ND	ND
LF08-MW11A	08-Oct-02	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND
	13-Oct-04	2.0	ND	ND	ND	ND
LF08-MW11B	09-Oct-01	ND	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND	ND
	08-Oct-03	ND	ND	ND	ND	ND
	13-Oct-04	ND	ND	ND	ND	ND
LF08-MW11C	09-Oct-02	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND
	13-Oct-04	ND	ND	ND	ND	ND

Duplicate

**Table 2-6**  
**Landfill 8 Groundwater Analytical Results Summary -**  
**Pesticides/PCBs**  
**Wright-Patterson AFB, Ohio**  
**Page 3 of 4**

LOCATION	DATE	AROCLOR 1242	AROCLOR 1248	AROCLOR 1254	AROCLOR 1260	DIELDRIN
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	NCL	NCL	NCL	NCL
LF08-MW101	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY
	22-Oct-98	ND	ND	ND	ND	ND
	20-Oct-99	ND	ND	ND	ND	ND
	24-Oct-00	ND	ND	ND	ND	ND
	01-Oct-01	ND	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND	ND
	01-Oct-03	ND	ND	ND	ND	ND
	04-Oct-04	ND	ND	ND	ND	ND
LF08-MW102	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY
	22-Oct-98	ND	ND	ND	ND	ND
	19-Oct-99	ND	ND	ND	ND	ND
	18-Oct-00	ND	ND	ND	ND	ND
	01-Oct-01	ND	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND	ND
LF08-MW103	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY
	26-Oct-98	ND	ND	ND	ND	ND
	19-Oct-99	ND	ND	ND	ND	ND
	24-Oct-00	ND	ND	ND	ND	ND
	01-Oct-01	ND	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND	ND
02-DM-81S-M	27-Oct-00	ND	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND	ND
02-DM-81D-M	30-Oct-00	ND	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND
	13-Oct-03	ND	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND	ND
02-DM-82-M	30-Oct-00	ND	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND	ND
	01-Oct-02	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND	ND
02-DM-83S-M	31-Oct-00	ND	ND	ND	ND	ND
	05-Oct-01	ND	ND	ND	ND	ND
	10-Oct-02	ND	ND	ND	ND	ND
	08-Oct-03	ND	ND	ND	ND	ND
	20-Oct-04	ND	ND	ND	ND	ND

**Table 2-6**  
**Landfill 8 Groundwater Analytical Results Summary -**  
**Pesticides/PCBs**  
**Wright-Patterson AFB, Ohio**  
**Page 4 of 4**

LOCATION	DATE	AROCLOR 1242	AROCLOR 1248	AROCLOR 1254	AROCLOR 1260	DIELDRIN
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	NCL	NCL	NCL	NCL
02-DM-83D-M Duplicate	31-Oct-00	ND	ND	ND	ND	ND
	31-Oct-00	ND	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND
	10-Oct-02	ND	ND	ND	ND	ND
	08-Oct-03	ND	ND	ND	ND	ND
	20-Oct-04	ND	ND	ND	ND	ND
02-DM-84-M Duplicate	27-Oct-00	ND	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND
	16-Oct-02	ND	ND	ND	ND	ND
	01-Oct-03	ND	ND	ND	ND	ND
	18-Oct-04	ND	ND	ND	ND	ND
	18-Oct-04	ND	ND	ND	ND	ND

NC - Not Collected. Insufficient Water.  
NCL = No Compliance Level set for these chemicals.  
ND = Not Detected  
µg/L - Micrograms per liter

**Table 2-7**  
**Landfill 8 Groundwater Analytical Results Summary - Inorganics**  
**Wright-Patterson AFB, Ohio**  
**Page 1 of 4**

LOCATION	DATE	ARSENIC	BERYLLIUM	CADMIUM	CYANIDE	COPPER	IRON	LEAD	ZINC	AMMONIA
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compliance Level - ROD		11	0.02	NCL	NCL	NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		50	4	5	200	1,300	NCL	15	NCL	NCL
LF08-MW02A	01-Oct-96	ND	ND	1.0	ND	ND	21,700	(22)	63	NS
	01-Nov-97	ND	ND	ND	ND	60	30	9.0	70	NS
	26-Oct-98	ND	ND	ND	ND	ND	4,400	ND	53	500
	12-Oct-99	ND	ND	ND	ND	ND	1,500	ND	ND	1,000
	23-Oct-00	ND	ND	ND	ND	ND	7,800	ND	ND	800
	03-Oct-01	ND	ND	ND	14	ND	1,200	ND	ND	900
	02-Oct-02	ND	ND	ND	ND	ND	5,600	ND	ND	600
	01-Oct-03	ND	ND	ND	ND	ND	6,200	ND	ND	1,000
	05-Oct-04	ND	ND	ND	ND	ND	5,800	ND	ND	1,000
LF08-MW02C	01-Oct-96	ND	ND	ND	ND	ND	10,700	6.0	ND	NS
	01-Nov-97	(50)	ND	ND	ND	50	44,000	(21)	120	NS
	26-Oct-98	(14)	ND	ND	ND	ND	4,000	ND	ND	900
	12-Oct-99	(19)	ND	ND	ND	ND	3,800	ND	ND	700
	12-Oct-99	(23)	ND	ND	ND	ND	4,600	ND	ND	900
	23-Oct-00	(19)	ND	ND	ND	ND	5,400	ND	ND	900
	23-Apr-01	(33)	ND	ND	NS	ND	6,300	ND	ND	NS
	04-Oct-01	10	ND	ND	ND	ND	1,500	ND	ND	600
	30-Apr-02	(29)	ND	ND	NS	ND	6,300	ND	ND	NS
	02-Oct-02	(18)	ND	ND	14	ND	3,100	ND	ND	700
	21-Apr-03	(64)	ND	ND	NS	ND	12,100	ND	ND	NS
	01-Oct-03	(25)	ND	ND	ND	ND	5,500	ND	ND	1,000
	29-Apr-04	(41)	ND	ND	NS	ND	8,100	ND	ND	NS
	06-Oct-04	(19)	ND	ND	ND	ND	4,000	ND	ND	1,000
LF08-MW05B	31-May-91	4 J	ND	ND	ND	21 J	ND	2 J	ND	160
	09-Sep-91	4 J	ND	3 J	ND	2 J	3,690	1 J	ND	NS
	27-Jan-92	3 J	(1 J)	ND	NS	8 J	ND	ND	ND	NS
	02-Nov-00	ND	ND	ND	ND	ND	1,700	ND	ND	ND
	23-Apr-01	ND	ND	ND	NS	ND	1,500	ND	ND	NS
	23-Apr-01	ND	ND	ND	NS	ND	1,700	ND	ND	NS
	02-Oct-01	ND	ND	ND	11	ND	2,000	ND	ND	300
	02-Oct-01	ND	ND	ND	12	ND	2,100	ND	ND	300
	29-Apr-02	ND	ND	ND	NS	ND	1,500	ND	ND	NS
	29-Apr-02	ND	ND	ND	NS	ND	1,600	ND	ND	NS
	03-Oct-02	ND	ND	ND	ND	ND	1,600	ND	ND	400
	03-Oct-02	ND	ND	ND	ND	ND	1,600	ND	ND	300
	11-Apr-03	ND	ND	ND	NS	ND	2,100	ND	ND	NS
	09-Oct-03	ND	ND	ND	ND	ND	2,200	ND	ND	300
	09-Oct-03	ND	ND	ND	ND	ND	2,200	ND	ND	400
	28-Apr-04	ND	ND	ND	NS	ND	2,100	ND	ND	NS
	05-Oct-04	ND	ND	ND	ND	ND	2,200	ND	ND	300
	05-Oct-04	ND	ND	ND	ND	ND	2,200	ND	ND	300
LF08-MW08A	15-May-91	7 J	ND	ND	ND	ND	554	ND	14 J	730
	10-Sep-91	(11)	(3 J)	ND	ND	ND	26,000	1 J	ND	NS
	01-Feb-92	(10 J)	ND	ND	ND	ND	731 J	ND	ND	NS
	24-Oct-00	(130)	ND	ND	ND	ND	9,300	ND	ND	900
	02-Oct-01	(100)	ND	ND	ND	ND	7,100	ND	ND	600
	08-Oct-02	(37)	ND	ND	ND	ND	2,400	ND	ND	700
	13-Oct-03	ND	ND	ND	ND	ND	750	ND	ND	800
	13-Oct-03	(12)	ND	ND	ND	ND	1,100	ND	ND	900
	05-Oct-04	(25)	ND	ND	ND	ND	1,700	ND	ND	900
LF08-MW08B	15-May-91	(5.2 J)	ND	ND	ND	ND	391	ND	13.4 J	660
	24-Oct-00	(14)	ND	ND	ND	ND	1,600	ND	ND	800
	24-Oct-00	(17)	ND	ND	ND	ND	1,800	ND	ND	700
	24-Apr-01	(33)	ND	ND	NS	ND	4,100	ND	ND	NS
	09-Oct-01	(20)	ND	ND	ND	ND	1,900	ND	ND	700
	29-Apr-02	(31)	ND	ND	NS	ND	3,700	ND	ND	NS
	08-Oct-02	ND	ND	ND	ND	ND	640	ND	ND	700
	08-Apr-03	(26)	ND	ND	NS	ND	2,300	ND	ND	NS
	09-Oct-03	(41)	ND	ND	18	ND	2,700	ND	ND	800
	14-Apr-04	(20)	ND	ND	NS	ND	1,600	ND	ND	NS
	05-Oct-04	ND	ND	ND	ND	ND	510	ND	ND	900
LF08-MW08C	15-May-91	ND	ND	ND	ND	17 J	ND	2 J	8 J	NS
	16-May-91	4 J	ND	ND	ND	67	7,170	ND	ND	100
	16-Jan-92	3 J	ND	ND	ND	ND	ND	2 J	14 J	NS
	24-Oct-00	ND	ND	ND	ND	ND	830	ND	ND	ND
	02-Oct-01	ND	ND	ND	14	ND	4,100	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND	ND	6,000	3.6	ND	200
	16-Oct-03	ND	ND	ND	ND	ND	4,200	ND	ND	ND
	05-Oct-04	ND	ND	ND	ND	ND	690	ND	ND	200

**Table 2-7**  
**Landfill 8 Groundwater Analytical Results Summary - Inorganics**  
**Wright-Patterson AFB, Ohio**  
**Page 2 of 4**

LOCATION	DATE	ARSENIC	BERYLLIUM	CADMIUM	CYANIDE	COPPER	IRON	LEAD	ZINC	AMMONIA
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compliance Level - ROD		11	0.02	NCL	NCL	NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		50	4	5	200	1,300	NCL	15	NCL	NCL
LF08-MW09A	01-Oct-96	ND	ND	ND	ND	ND	418	ND	ND	NS
	01-Nov-97	ND	ND	ND	ND	20	18,000	6.0	30	NS
	22-Oct-98	ND	ND	ND	ND	ND	ND	ND	ND	500
	12-Oct-99	ND	ND	ND	ND	ND	ND	ND	ND	400
	23-Oct-00	ND	ND	ND	ND	ND	170	ND	ND	500
	24-Apr-01	ND	ND	ND	NS	ND	ND	ND	ND	NS
	08-Oct-01	ND	ND	ND	ND	ND	160	ND	ND	500
	29-Apr-02	ND	ND	ND	NS	ND	190	ND	ND	NS
	14-Oct-02	ND	ND	ND	ND	36	410	ND	ND	400
	08-Apr-03	ND	ND	ND	NS	ND	3,000	ND	ND	NS
	14-Oct-03	ND	ND	ND	13	ND	900	ND	ND	500
	14-Apr-04	ND	ND	ND	NS	ND	ND	ND	ND	NS
	18-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	500
LF08-MW09B	01-Oct-96	ND	ND	ND	ND	ND	3,520	7.0	ND	NS
	01-Nov-97	ND	ND	ND	ND	10	12,000	4.0	50	NS
	22-Oct-98	ND	ND	ND	ND	ND	270	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND	180	ND	ND	400
	23-Oct-00	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND	ND	160	ND	ND	ND
	14-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW10A	01-Oct-96	ND	ND	0.3	ND	ND	4,610	8.0	ND	NS
	01-Nov-97	(30)	ND	ND	ND	ND	6,700	ND	ND	NS
	19-Oct-98	(25)	ND	ND	ND	ND	2,300	ND	ND	2,500
	12-Oct-99	(29)	ND	ND	ND	ND	2,500	ND	ND	2,200
	25-Oct-00	(34)	ND	ND	ND	ND	2,400	ND	ND	2,600
	03-Oct-01	(37)	ND	ND	14	ND	2,700	ND	ND	2,500
	14-Oct-02	(36)	ND	ND	ND	ND	2,400	ND	ND	2,300
	06-Oct-03	(40)	ND	ND	ND	ND	2,700	ND	ND	2,100
LF08-MW10B	20-Oct-04	(38)	ND	ND	ND	ND	2,200	ND	ND	2,800
	01-Oct-96	ND	ND	ND	ND	ND	1,670	ND	ND	NS
	01-Nov-97	ND	ND	ND	ND	ND	1,400	ND	ND	NS
	19-Oct-98	ND	ND	ND	ND	ND	1,600	ND	ND	ND
	18-Oct-99	ND	ND	ND	ND	ND	1,400	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND	ND	1,500	ND	ND	ND
	24-Apr-01	ND	ND	ND	NS	ND	1,400	ND	ND	NS
	03-Oct-01	ND	ND	ND	14	ND	1,500	ND	ND	500
	29-Apr-02	ND	ND	ND	NS	ND	1,200	ND	ND	NS
	14-Oct-02	ND	ND	ND	ND	ND	1,100	ND	ND	ND
	15-Apr-03	ND	ND	ND	NS	ND	540	ND	ND	NS
	06-Oct-03	ND	ND	ND	ND	ND	770	ND	ND	ND
	19-Apr-04	ND	ND	ND	NS	ND	270	ND	ND	NS
LF08-MW10C	12-Oct-04	ND	ND	ND	ND	ND	850	ND	ND	ND
	01-Oct-96	(128)	(1.0)	1.1	ND	82	75,900	(24)	288	NS
	01-Nov-97	(770)	ND	ND	ND	270	370,000	(80)	590	NS
	29-Oct-98	(110)	ND	ND	ND	67	53,000	(19)	230	ND
	20-Oct-99	(11)	ND	ND	ND	ND	6,200	ND	ND	ND
	25-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	03-Oct-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	11-Oct-02	(42)	ND	ND	ND	ND	17,600	6.0	97	ND
LF08-MW11A	06-Oct-03	ND	ND	ND	ND	ND	950	ND	ND	ND
	20-Oct-04	ND	ND	ND	ND	ND	550	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND	ND	470	ND	ND	600
	09-Oct-03	ND	ND	ND	ND	ND	360	ND	ND	800
LF08-MW11B	13-Oct-04	ND	ND	ND	ND	ND	460	ND	ND	800
	24-Apr-01	ND	ND	ND	NS	ND	1,300	ND	ND	NS
	09-Oct-01	ND	ND	ND	ND	ND	4,600	ND	250	300
	01-May-02	ND	ND	ND	NS	ND	3,800	ND	ND	NS
	07-Oct-02	ND	ND	ND	ND	ND	6,200	ND	ND	400
	07-Oct-02	ND	ND	ND	ND	ND	6,700	ND	ND	400
	11-Apr-03	ND	ND	ND	NS	ND	5,400	ND	ND	NS
	08-Oct-03	ND	ND	ND	ND	ND	3,900	ND	ND	200
	21-Apr-04	ND	ND	ND	NS	ND	6,000	ND	ND	NS
	13-Oct-04	ND	ND	ND	ND	ND	5,000	ND	ND	300

Duplicate

**Table 2-7**  
**Landfill 8 Groundwater Analytical Results Summary - Inorganics**  
**Wright-Patterson AFB, Ohio**  
**Page 3 of 4**

LOCATION	DATE	ARSENIC	BERYLLIUM	CADMIUM	CYANIDE	COPPER	IRON	LEAD	ZINC	AMMONIA
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compliance Level - ROD		11	0.02	NCL	NCL	NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		50	4	5	200	1,300	NCL	15	NCL	NCL
LF08-MW11C	09-Oct-02	ND	ND	ND	ND	ND	660	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND
	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF08-MW101	01-Oct-96	ND	ND	0.4	ND	ND	6,210	(17)	62	NS
	01-Nov-97	ND	(7.0)	ND	ND	ND	54,000	ND	180	NS
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NS
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NS
	22-Oct-98	10	ND	ND	ND	26	15,200	(26)	100	1,400
	20-Oct-99	(15)	ND	ND	ND	ND	24,200	(26)	84	1,200
	24-Oct-00	ND	ND	ND	ND	ND	6,800	8.3	450	600
	24-Apr-01	ND	ND	ND	NS	ND	3,400	ND	ND	NS
	01-Oct-01	ND	ND	ND	10	28	8,000	7.4	450	300
	29-Apr-02	ND	ND	ND	NS	ND	1,600	ND	190	NS
	07-Oct-02	ND	ND	ND	ND	ND	930	ND	510	300
	11-Apr-03	ND	ND	ND	NS	ND	2,500	ND	720	NS
	01-Oct-03	ND	ND	ND	ND	ND	1,400	ND	92	1,100
	14-Apr-04	ND	ND	ND	NS	ND	1,000	ND	290	NS
	04-Oct-04	ND	ND	ND	ND	ND	1,700	ND	150	700
LF08-MW102	01-Oct-96	(61)	(3.0)	(2.0)	ND	164	115,000	(86)	396	NS
	01-Nov-97	(40)	ND	ND	ND	30	30,000	(17)	90	NS
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NS
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NS
	22-Oct-98	(11)	ND	ND	ND	ND	6,200	ND	ND	700
	19-Oct-99	10	ND	ND	ND	ND	2,100	ND	69	ND
	24-Apr-01	ND	ND	ND	NS	ND	200	ND	61	NS
	01-Oct-01	ND	ND	ND	21	ND	750	ND	110	400
	29-Apr-02	ND	ND	ND	NS	ND	340	ND	73	NS
	07-Oct-02	ND	ND	ND	ND	ND	ND	ND	77	200
	10-Apr-03	ND	ND	ND	NS	ND	ND	ND	ND	NS
	30-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	ND
	14-Apr-04	ND	ND	ND	NS	ND	170	ND	ND	NS
	06-Oct-04	ND	ND	ND	ND	ND	1,000	ND	ND	400
LF08-MW103	01-Oct-96	ND	(1.0)	3.0	ND	106	56,200	(49)	258	NS
	01-Nov-97	(50)	ND	ND	ND	50	44,000	(21)	120	NS
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NS
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NS
	26-Oct-98	(13)	ND	ND	ND	ND	9,000	5.1	70	2,500
	19-Oct-99	ND	ND	ND	ND	ND	2,100	ND	ND	500
	24-Oct-00	ND	ND	ND	ND	ND	1,100	ND	190	500
	24-Apr-01	ND	ND	ND	NS	ND	730	ND	88	NS
	01-Oct-01	ND	ND	ND	15	ND	1,500	ND	170	400
	29-Apr-02	ND	ND	ND	NS	ND	870	ND	390	NS
	07-Oct-02	ND	ND	ND	ND	ND	290	ND	120	300
	10-Apr-03	ND	ND	ND	NS	ND	320	ND	ND	NS
	30-Sep-03	ND	ND	ND	ND	ND	370	ND	100	200
	14-Apr-04	ND	ND	ND	NS	ND	1,200	ND	95	NS
	06-Oct-04	ND	ND	ND	ND	ND	2,200	ND	140	700
02-DM-81S-M	15-May-91	(12)	ND	ND	ND	ND	563	2 J	13 J	280
	16-Sep-91	(12)	ND	ND	ND	ND	1,030	5 J	ND	NS
	28-Jan-92	(18)	ND	ND	ND	3 J	1340 J	2 J	ND	NS
	27-Oct-00	ND	ND	ND	NS	ND	ND	ND	ND	300
	02-Oct-01	ND	ND	ND	13	ND	ND	ND	ND	300
	03-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	500
	09-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND
02-DM-81D-M	05-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	500
	15-May-91	5 J	ND	2 J	NS	ND	2,150	2 J	19 J	200
	16-Sep-91	(22)	ND	ND	NS	ND	5,330	5 J	ND	NS
	28-Jan-92	(18)	ND	ND	NS	5 J	3,670 J	2 J	ND	NS
	30-Oct-00	(24)	ND	ND	ND	ND	4,700	ND	ND	300
	23-Apr-01	(16)	ND	ND	NS	ND	3,500	ND	ND	NS
	02-Oct-01	(14)	ND	ND	11	ND	3,100	ND	ND	300
	29-Apr-02	(13)	ND	ND	NS	ND	3,300	ND	ND	NS
	03-Oct-02	(15)	ND	ND	ND	ND	3,200	ND	ND	500
	22-Apr-03	(18)	ND	ND	NS	ND	3,600	ND	ND	NS
	13-Oct-03	(17)	ND	ND	ND	ND	3,800	ND	ND	200
	23-Apr-04	(20)	ND	ND	NS	ND	3,700	ND	ND	NS
	05-Oct-04	(18)	ND	ND	ND	ND	3,200	ND	ND	400

**Table 2-7**  
**Landfill 8 Groundwater Analytical Results Summary - Inorganics**  
**Wright-Patterson AFB, Ohio**  
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LOCATION	DATE	ARSENIC	BERYLLIUM	CADMIUM	CYANIDE	COPPER	IRON	LEAD	ZINC	AMMONIA
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compliance Level - ROD		11	0.02	NCL	NCL	NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		50	4	5	200	1,300	NCL	15	NCL	NCL
02-DM-82-M	13-May-91	(12 J)	(0.8 J)	ND	ND	8 J	2,590	2 J	ND	660
	17-Sep-91	(13)	ND	ND	ND	95	7,690	1 J	ND	NS
	01-Feb-92	(18)	ND	ND	NS	ND	783	2 J	ND	NS
	30-Oct-00	ND	ND	ND	ND	ND	190	ND	ND	400
	23-Apr-01	ND	ND	ND	NS	ND	ND	ND	ND	NS
	04-Oct-01	ND	ND	ND	ND	ND	200	ND	ND	200
	30-Apr-02	ND	ND	ND	NS	ND	ND	ND	ND	NS
	01-Oct-02	ND	ND	ND	ND	ND	150	ND	ND	700
	21-Apr-03	ND	ND	ND	NS	ND	ND	ND	ND	NS
	09-Oct-03	ND	ND	ND	ND	ND	150	ND	ND	500
	28-Apr-04	ND	ND	ND	NS	ND	ND	ND	ND	NS
	05-Oct-04	ND	ND	ND	ND	ND	190	ND	ND	400
02-DM-83S-M	13-May-91	8 J	ND	2 J	67	26 J	4,180	1 J	19 J	ND
	11-Sep-91	(34)	(2 J)	3 J	ND	147	79,900	(44 J)	314	NS
	17-Jan-92	(18 J)	ND	ND	NS	47	2,640	6 J	20 J	NS
	31-Oct-00	ND	ND	ND	ND	ND	8,100	9.0	58	ND
	25-Apr-01	ND	ND	ND	NS	ND	1,900	ND	ND	NS
	05-Oct-01	ND	ND	ND	ND	ND	6,500	7.4	ND	200
	29-Apr-02	ND	ND	ND	NS	ND	1,800	ND	ND	NS
	10-Oct-02	ND	ND	ND	ND	ND	1,300	ND	ND	200
	22-Apr-03	ND	ND	ND	NS	ND	3,100	ND	86	NS
	08-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	300
	23-Apr-04	ND	ND	ND	NS	ND	ND	ND	ND	NS
	20-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	200
02-DM-83D-M	13-May-91	4 J	ND	ND	8 J	ND	3,960	8 J	ND	ND
	16-Sep-91	2 J	ND	ND	ND	ND	1,140	1 J	ND	NS
	02-Feb-92	3 J	ND	ND	NS	ND	169 J	ND	ND	NS
	31-Oct-00	ND	ND	ND	ND	ND	ND	ND	ND	200
	31-Oct-00	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	300
	10-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	200
	08-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	200
	20-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND
02-DM-84-M	13-May-91	(31 J)	ND	4 J	ND	9 J	22,900	2 J	ND	100
	16-Sep-91	(90)	ND	(5 J)	ND	ND	40,900	1 J	ND	NS
	01-Feb-92	(59 J)	ND	ND	NS	4 J	25,800	ND	ND	NS
	27-Oct-00	(46)	ND	ND	ND	ND	21,500	ND	ND	400
	02-Oct-01	(44)	ND	ND	ND	ND	19,800	ND	ND	400
	16-Oct-02	(61)	ND	ND	ND	ND	26,500	ND	ND	200
	01-Oct-03	(55)	ND	ND	ND	ND	26,400	ND	ND	400
	18-Oct-04	(52)	ND	ND	ND	ND	21,500	ND	ND	500
	18-Oct-04	(53)	ND	ND	ND	ND	22,200	ND	ND	700
LF8/10-EFF	28-Jul-04	ND	ND	ND	NS	75	9,700	(16)	110	NS
LF8/10-EFF	21-Oct-04	ND	ND	ND	NS	80	2,900	5.1	96	NS

ROD - Record of Decision

MCL - Maximum Contaminant Level

NCL - No Compliance Level set for these chemicals.

B - Method blank contamination.

J - Estimated result, result less than reporting limit

( ) - Concentration exceeds a compliance level.

µg/L - micrograms per liter

NS - Not Sampled

ND - Not Detected

**Table 2-8**  
**Landfill 10 Groundwater Analytical Results Summary - VOCs**  
**Wright-Patterson AFB, Ohio**  
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LOCATION Units	SAMPLE DATE	BENZENE µg/L	ETHYLBENZENE µg/L	TOLUENE µg/L	TOTAL XYLENES µg/L	CHLOROFORM µg/L	TRANS-1,2-DCE µg/L	METHYLENE CHLORIDE µg/L	MTBE µg/L	TCE µg/L	VINYL CHLORIDE µg/L
Compliance Level - ROD		0.62	NCL	NCL	NCL	0.28	100	6.22	NCL	3.03	0.0283
Compliance Level - MCL		5	700	1000	10000	NCL	100	NCL	NCL	5	2
LF10-MW03A	23-May-91	ND	ND	ND	ND	(13 J)	ND	ND	NS	ND	ND
	19-Jan-92	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	26-Oct-00	0.36 J,B	ND	0.14 J	ND	ND	ND	0.30 J,B	ND	ND	ND
	28-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30-Apr-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	11-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	16-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	13-Oct-04	0.37 J	ND	ND	0.49 J	ND	ND	ND	ND	ND	ND
LF10-MW05B	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	(25)	NS	ND	ND
	23-Oct-98	ND	ND	ND	0.64 J	ND	ND	1.2	NS	0.29 J	ND
	Duplicate 23-Oct-98	ND	ND	ND	ND	ND	ND	1.8	NS	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	25-Oct-00	ND	ND	ND	ND	ND	ND	0.26 J	ND	ND	ND
	23-Apr-01	ND	ND	ND	ND	ND	ND	0.36 J,B	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate 03-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate 02-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	21-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate 21-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate 30-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	23-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate 23-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate 04-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF10-MW05C	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	4.2	NS	ND	ND
	30-Oct-98	ND	ND	ND	ND	ND	ND	2.3	NS	ND	ND
	14-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	25-Oct-00	ND	ND	ND	ND	ND	ND	0.32 J	ND	ND	ND
	23-Apr-01	ND	ND	ND	ND	ND	ND	0.36 J,B	ND	ND	ND
	03-Oct-01	ND	ND	0.19 J	ND	ND	ND	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF10-MW06A	19-May-91	ND	ND	ND	ND	ND	ND	<2 J	NS	ND	ND
	28-Aug-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	30-Jan-92	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	(2.0)	ND	3.2	ND	ND	ND	(11)	NS	ND	ND
	27-Oct-98	0.55	ND	0.74	ND	ND	ND	ND	NS	ND	ND
	12-Oct-99	0.42 J	ND	0.32 J	ND	ND	ND	ND	NS	ND	ND
	25-Oct-00	ND	ND	0.21 J	ND	ND	ND	0.24 J	ND	ND	ND
	25-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Oct-01	ND	ND	0.38 J	ND	ND	ND	ND	ND	ND	ND
	30-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10-Oct-02	ND	ND	0.46 J	ND	ND	ND	ND	ND	ND	ND
	08-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	13-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	22-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF10-MW06A DUP*	19-May-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	25-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09-Oct-01	ND	ND	0.30 J	ND	ND	ND	ND	ND	ND	ND
	10-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	13-Oct-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	12-Oct-04	ND	ND	ND	0.98 J,B	ND	ND	ND	ND	ND	ND
LF10-MW06B	30-May-91	ND	ND	ND	ND	ND	<1 J	ND	NS	ND	ND
	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	3.8	NS	ND	ND
	26-Oct-98	ND	ND	ND	ND	ND	ND	0.73	NS	1.2	(4.2)
	12-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	25-Oct-00	ND	ND	ND	ND	ND	ND	0.28 J	ND	ND	ND
	25-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Oct-01	ND	ND	0.25 J	ND	ND	ND	ND	ND	ND	ND
	10-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	13-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND



**Table 2-8**  
**Landfill 10 Groundwater Analytical Results Summary - VOCs**  
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LOCATION Units	SAMPLE DATE	BENZENE µg/L	ETHYLBENZENE µg/L	TOLUENE µg/L	TOTAL XYLENES µg/L	CHLOROFORM µg/L	TRANS-1,2-DCE µg/L	METHYLENE CHLORIDE µg/L	MTBE µg/L	TCE µg/L	VINYL CHLORIDE µg/L
Compliance Level - ROD		0.62	NCL	NCL	NCL	0.28	100	6.22	NCL	3.03	0.0283
Compliance Level - MCL		5	700	1000	10000	NCL	100	NCL	NCL	5	2
LF10-MW07A	21-May-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	26-Aug-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	28-Jan-92	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	26-Oct-00	0.23 J.B	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate	0.21 J.B	ND	ND	ND	ND	ND	0.25 J.B	ND	ND	ND
	23-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	21-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	23-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF10-MW07B	17-May-91	ND	ND	ND	ND	ND	ND	<2 J	NS	ND	ND
	26-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	04-Oct-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	04-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	08-Oct-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	20-Oct-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
LF10-MW07C	17-May-91	(3)	ND	ND	ND	ND	ND	<2 J	NS	ND	ND
	27-Aug-91	(2 J)	ND	ND	ND	ND	ND	ND	NS	ND	ND
	27-Jan-92	(9)	0.7 J	ND	1	ND	ND	ND	NS	ND	ND
	26-Oct-00	(1.1 B)	ND	0.21 J	ND	ND	ND	0.36 J.B	ND	ND	ND
	23-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04-Oct-01	0.27 J	ND	0.28 J	ND	ND	ND	ND	ND	ND	ND
	04-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11-Oct-04	ND	ND	0.21 J	ND	ND	ND	ND	ND	ND	ND
LF10-MW08A-2	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	3.8	NS	ND	ND
	20-Oct-98	ND	ND	ND	ND	ND	ND	0.47 J	NS	ND	ND
	13-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	Duplicate	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	18-Oct-00	0.12 J	ND	0.24 J	ND	ND	ND	ND	ND	ND	ND
	25-Apr-01	ND	ND	0.33 J	0.56 J	ND	ND	ND	ND	ND	ND
	Duplicate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-May-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	16-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	15-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF10-MW08B	19-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	2.7	NS	ND	ND
	29-Oct-98	ND	ND	ND	ND	ND	ND	0.41 J	NS	ND	ND
	Duplicate	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	13-Oct-99	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	26-Oct-00	ND	ND	0.19 J	ND	ND	ND	0.20 J	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF10-MW09A	09-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	18-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	5.4	NS	ND	ND
	01-Nov-98	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	18-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	30-Oct-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03-Oct-01	ND	ND	0.33 J	ND	ND	ND	ND	ND	ND	ND
LF10-MW09A	07-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

**Table 2-8**  
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LOCATION	SAMPLE	BENZENE	ETHYLBENZENE	TOLUENE	TOTAL	CHLOROFORM	TRANS-1,2-DCE	METHYLENE	MTBE	TCE	VINYL
Units	DATE	µg/L	µg/L	µg/L	XYLENES	µg/L	µg/L	CHLORIDE	µg/L	µg/L	CHLORIDE
Compliance Level - ROD		0.62	NCL	NCL	NCL	0.28	100	6.22	NCL	3.03	0.0283
Compliance Level - MCL		5	700	1000	10000	NCL	100	NCL	NCL	5	2
LF10-MW09B	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	19-Oct-98	(1.0)	ND	ND	ND	ND	ND	0.41 J	NS	ND	ND
	18-Oct-99	(1.2)	ND	ND	ND	ND	ND	ND	NS	ND	(0.45 J)
	26-Oct-00	(1.4 B)	ND	0.25 J	ND	ND	ND	0.29 J,B	ND	ND	(0.46 J)
	25-Apr-01	ND	ND	0.33 J	0.56 J	ND	ND	ND	ND	ND	ND
	Duplicate 25-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03-Oct-01	(1.1)	ND	ND	ND	ND	ND	ND	ND	ND	(0.25 J)
	07-Oct-02	(1.0)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30-Sep-03	(0.98 J)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11-Oct-04	0.39 J	ND	ND	ND	ND	ND	ND	ND	ND	(0.27 J)
LF10-MW09C	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	(2.9)	ND	ND	ND	ND	ND	ND	NS	ND	ND
	29-Oct-98	(3.2)	ND	ND	ND	ND	ND	0.28 J	NS	ND	ND
	18-Oct-99	(3.0)	ND	ND	ND	ND	ND	ND	NS	ND	ND
	30-Oct-00	(3.8)	ND	0.47 J	ND	ND	ND	0.34 J,B	ND	ND	ND
	25-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	25-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03-Oct-01	0.60 J	ND	0.23 J	ND	ND	ND	ND	ND	0.20 J	ND
	Duplicate 01-May-02	ND	ND	ND	ND	ND	ND	ND	ND	0.21 J	ND
	01-May-02	ND	ND	ND	ND	ND	ND	ND	ND	0.21 J	ND
	07-Oct-02	(2.7)	ND	ND	ND	ND	ND	µg/L	ND	ND	ND
	22-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	0.31 J	ND
	23-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	0.25 J	ND
	11-Oct-04	(2.7)	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF10-MW10C	16-May-91	ND	<1 J	<2 J	2.0	ND	ND	<2 J	NS	1.0	ND
	23-Aug-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	30-Jan-92	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	30-Oct-00	ND	ND	0.13 J	ND	ND	ND	0.23 J,B	ND	ND	ND
	26-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-May-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate 08-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	22-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate 22-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF10-MW11A	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	26-Oct-98	ND	ND	ND	ND	ND	ND	0.74	NS	ND	ND
	Duplicate 26-Oct-98	ND	ND	ND	ND	ND	ND	0.91	NS	ND	ND
	14-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	Duplicate 14-Oct-99	ND	ND	ND	ND	ND	ND	3.3	NS	ND	ND
	30-Oct-00	0.13 J	ND	0.32 J	ND	ND	ND	0.22 J,B	ND	ND	ND
	Duplicate 30-Oct-00	0.14 J	ND	0.30 J	ND	ND	ND	0.26 J,B	ND	ND	ND
	04-Oct-01	ND	ND	0.35 J	ND	ND	ND	ND	ND	ND	ND
	Duplicate 04-Oct-01	ND	ND	0.40 J	ND	ND	ND	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate 03-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	14-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF10-MW11B	14-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate 11-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	26-Oct-98	ND	ND	ND	ND	ND	ND	2.8	NS	ND	ND
	14-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	30-Oct-00	0.44 J	ND	1.2	0.89 J	ND	ND	ND	ND	ND	ND
	26-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate 08-Oct-01	ND	ND	0.20 J	ND	ND	ND	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	15-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

**Table 2-8**  
**Landfill 10 Groundwater Analytical Results Summary - VOCs**  
**Wright-Patterson AFB, Ohio**  
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LOCATION Units	SAMPLE DATE	BENZENE µg/L	ETHYLBENZENE µg/L	TOLUENE µg/L	TOTAL XYLENES µg/L	CHLOROFORM µg/L	TRANS-1,2-DCE µg/L	METHYLENE CHLORIDE µg/L	MTBE µg/L	TCE µg/L	VINYL CHLORIDE µg/L
Compliance Level - ROD		0.62	NCL	NCL	NCL	0.28	100	6.22	NCL	3.03	0.0283
Compliance Level - MCL		5	700	1000	10000	NCL	100	NCL	NCL	5	2
LF10-MW102	01-Nov-97	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	29-Oct-98	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	18-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	25-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	25-Apr-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	05-Oct-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	30-Apr-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	08-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	23-Apr-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09-Oct-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	28-Apr-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	06-Oct-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
LF10-MW103	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	(2.7)	ND	ND	ND	ND	ND	2.5	NS	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	23-Oct-98	(1.5)	ND	ND	ND	ND	ND	1.5	NS	ND	ND
	19-Oct-99	(0.87)	ND	ND	ND	ND	ND	ND	NS	ND	ND
	26-Oct-00	(2.1)	ND	0.24 J	ND	ND	ND	0.32 J	0.12 J	ND	ND
	25-Apr-01	(1.2)	ND	ND	ND	ND	ND	0.48 J,B	ND	ND	ND
	08-Oct-01	(2.0)	ND	0.40 J	ND	ND	ND	ND	ND	ND	ND
	30-Apr-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	08-Oct-02	0.51 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	23-Apr-03	0.47 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10-Oct-03	(1.6)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	23-Apr-04	(0.88 J)	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07-Oct-04	0.58 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF10-MW104	01-Nov-97	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	18-Oct-99	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	25-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	25-Apr-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	05-Oct-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	30-Apr-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	07-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	17-Apr-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	03-Oct-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	29-Apr-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	06-Oct-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
LF10-MW105	01-Oct-96	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Nov-97	ND	ND	55	ND	ND	ND	3.8	NS	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	23-Oct-98	ND	ND	ND	ND	ND	ND	1.2	NS	ND	ND
	14-Oct-99	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	26-Oct-00	ND	ND	0.19 J	ND	ND	ND	0.22 J	ND	ND	ND
	25-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	25-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05-Oct-01	ND	ND	0.50 J	ND	ND	ND	ND	ND	ND	ND
	30-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01-DM-102S-M	01-Jun-86	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01-Sep-88	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	31-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09-Oct-01	ND	0.15 J	0.53 J	ND	ND	ND	ND	ND	ND	ND
	08-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	16-Oct-03	ND	ND	0.19 J	ND	ND	ND	ND	ND	ND	ND
	13-Oct-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

**Table 2-8**  
**Landfill 10 Groundwater Analytical Results Summary - VOCs**  
**Wright-Patterson AFB, Ohio**  
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WPAFB  
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September 2, 2005

LOCATION Units	SAMPLE DATE	BENZENE μg/L	ETHYLBENZENE μg/L	TOLUENE μg/L	TOTAL XYLENES μg/L	CHLOROFORM μg/L	TRANS-1,2-DCE μg/L	METHYLENE CHLORIDE μg/L	MTBE μg/L	TCE μg/L	VINYL CHLORIDE μg/L
Compliance Level - ROD		0.62	NCL	NCL	NCL	0.28	100	6.22	NCL	3.03	0.0283
Compliance Level - MCL		5	700	1000	10000	NCL	100	NCL	NCL	5	2
01-DM-102D-M	01-Jun-86	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Sep-88	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	16-May-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	04-Sep-91	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	20-Jan-92	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	31-Oct-00	ND	ND	0.14 J	ND	ND	ND	ND	ND	ND	ND
	25-Apr-01	ND	ND	ND	ND	ND	ND	0.34 J,B	ND	ND	ND
	25-Apr-01	ND	ND	ND	ND	ND	ND	0.34 J,B	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01-May-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	22-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01-004-M	01-Jun-86	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	01-Sep-88	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
	21-May-91	(2 J)	1 J	1 J	1 J	(2 J)	1 J	2 J	NS	1 J	(2 J)
	05-Sep-91	(3.0)	0.6 J	4.0	4.0	ND	ND	ND	NS	ND	ND
	27-Oct-00	0.43 J	ND	1.8	0.93 J	ND	ND	0.60 J	ND	ND	ND
	23-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03-Oct-01	ND	ND	0.19 J	ND	ND	ND	ND	ND	ND	ND
	30-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	21-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	20-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LF10-MW10C (ambient blank)	06-Oct-04	0.29 J	ND	1.6	0.89 J	ND	ND	ND	ND	ND	ND

NCL - No Compliance Level set for these chemicals.

NS - Not Sampled

ND = Not Detected

J = Estimated Result

B = Method blank contamination.

μg/L = micrograms per liter

( ) - Concentration exceeds a compliance level.

\* - MW06A DUP is a separate well.

MTBE - Methyl tert-butyl ether

TCE - Trichloroethene

DCE - Dichloroethene

See Appendix C-1 to find any detections of other VOCs not listed here for the October 2004 sampling round.

**Table 2-9**  
**Landfill 10 Groundwater Analytical Results Summary - SVOCs**  
**Wright-Patterson AFB, Ohio**  
**Page 1 of 3**

LOCATION	DATE	4-METHYL-PHENOL	BENZO(A) PYRENE	DIETHYL PHTHALATE	NAPHTHALENE
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	0.2	NCL	NCL
LF10-MW03A	26-Oct-00	ND	ND	ND	ND
	05-Oct-01	ND	ND	ND	ND
	11-Oct-02	VOCs and Inorganics only were collected, not enough water produced			
	16-Oct-03	VOCs and Cyanide only were collected, not enough water produced			
	13-Oct-04	VOCs and Inorganics only were collected, not enough water produced			
LF10-MW05B	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	23-Oct-98	ND	ND	ND	0.81
	23-Oct-98	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND
	04-Oct-04	ND	ND	ND	ND
	04-Oct-04	ND	ND	ND	ND
	04-Oct-04	ND	ND	ND	ND
LF10-MW05C	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	30-Oct-98	ND	ND	ND	ND
	14-Oct-99	ND	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND
LF10-MW06A	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	27-Oct-98	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND
	10-Oct-02	ND	ND	ND	ND
	13-Oct-03	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND
LF10-MW06A-DUP*	25-Oct-00	DRY	DRY	DRY	DRY
	09-Oct-01	VOCs only were collected, not enough water produced			
	10-Oct-02	DRY	DRY	DRY	DRY
	14-Oct-03	DRY	DRY	DRY	DRY
	12-Oct-04	VOCs only were collected, not enough water produced			
LF10-MW06B	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	26-Oct-98	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND
	10-Oct-02	ND	ND	ND	ND
	13-Oct-03	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND
LF10-MW07A	26-Oct-00	ND	ND	ND	ND
	26-Oct-00	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND
	08-Oct-03	ND	ND	ND	ND
	08-Oct-03	ND	ND	ND	ND
LF10-MW07B	11-Oct-04	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND
	26-Oct-00	DRY	DRY	DRY	DRY
	04-Oct-01	DRY	DRY	DRY	DRY
	04-Oct-02	DRY	DRY	DRY	DRY
LF10-MW07C	08-Oct-03	DRY	DRY	DRY	DRY
	20-Oct-04	DRY	DRY	DRY	DRY
	26-Oct-00	Only VOCs and dioxin/furan samples collected, not enough water produced			
	04-Oct-01	ND	ND	ND	ND
LF10-MW07C	04-Oct-02	ND	ND	ND	ND
	09-Oct-03	VOCs and Inorganics only were collected, not enough water produced			
	11-Oct-04	ND	ND	ND	ND

**Table 2-9**  
**Landfill 10 Groundwater Analytical Results Summary - SVOCs**  
**Wright-Patterson AFB, Ohio**  
**Page 2 of 3**

LOCATION	DATE	4-METHYL-PHENOL	BENZO(A) PYRENE	DIETHYL PHTHALATE	NAPHTHALENE
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	0.2	NCL	NCL
LF10-MW08A-2	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	20-Oct-98	ND	ND	ND	ND
	13-Oct-99	ND	ND	ND	ND
	13-Oct-99	ND	ND	ND	ND
	18-Oct-00	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND
	16-Oct-02	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND
	13-Oct-04	ND	ND	ND	ND
LF10-MW08B	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	29-Oct-98	ND	ND	ND	ND
	29-Oct-98	ND	ND	ND	ND
	13-Oct-99	DRY	DRY	DRY	DRY
	26-Oct-00	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND
	18-Oct-04	ND	ND	ND	ND
LF10-MW09A	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	01-Nov-98	ND	ND	ND	ND
	18-Oct-99	ND	ND	ND	ND
	30-Oct-00	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND
LF10-MW09B	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	19-Oct-98	ND	ND	ND	ND
	18-Oct-99	ND	ND	ND	ND
	26-Oct-00	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND
LF10-MW09C	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	29-Oct-98	ND	ND	ND	ND
	18-Oct-99	ND	ND	ND	ND
	30-Oct-00	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND
LF10-MW10C	30-Oct-00	ND	ND	ND	ND
	09-Oct-01	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND
LF10-MW11A	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	26-Oct-98	ND	ND	ND	ND
	26-Oct-98	ND	ND	ND	ND
	14-Oct-99	ND	ND	ND	ND
	14-Oct-99	ND	ND	ND	ND
	30-Oct-00	ND	ND	ND	ND
	30-Oct-00	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND
	14-Oct-03	ND	ND	ND	ND
	14-Oct-03	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND

**Table 2-9**  
**Landfill 10 Groundwater Analytical Results Summary - SVOCs**  
**Wright-Patterson AFB, Ohio**  
**Page 3 of 3**

LOCATION	DATE	4-METHYL-PHENOL	BENZO(A) PYRENE	DIETHYL PHTHALATE	NAPHTHALENE
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	0.2	NCL	NCL
LF10-MW11B	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	26-Oct-98	ND	ND	ND	ND
	14-Oct-99	ND	ND	ND	ND
	30-Oct-00	ND	ND	ND	ND
	05-Oct-01	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND
	15-Oct-03	ND	ND	ND	ND
	12-Oct-04	ND	ND	ND	ND
	12-Oct-04	ND	ND	ND	ND
	12-Oct-04	ND	ND	ND	ND
LF10-MW102	01-Nov-97	ND	ND	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY
	29-Oct-98	ND	ND	ND	ND
	18-Oct-99	ND	ND	ND	ND
	25-Oct-00	DRY	DRY	DRY	DRY
	05-Oct-01	DRY	DRY	DRY	DRY
	08-Oct-02	DRY	DRY	DRY	DRY
	09-Oct-03	DRY	DRY	DRY	DRY
	06-Oct-04	DRY	DRY	DRY	DRY
LF10-MW103	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY
	23-Oct-98	ND	ND	ND	ND
	19-Oct-99	ND	ND	ND	ND
	26-Oct-00	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND
	10-Oct-03	ND	ND	ND	ND
	07-Oct-04	ND	ND	ND	ND
	07-Oct-04	ND	ND	ND	ND
LF10-MW104	01-Nov-97	DRY	DRY	DRY	DRY
	01-Jun-98	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY
	18-Oct-99	DRY	DRY	DRY	DRY
	25-Oct-00	DRY	DRY	DRY	DRY
	05-Oct-01	DRY	DRY	DRY	DRY
	07-Oct-02	DRY	DRY	DRY	DRY
	09-Oct-03	DRY	DRY	DRY	DRY
	06-Oct-04	DRY	DRY	DRY	DRY
	06-Oct-04	DRY	DRY	DRY	DRY
LF10-MW105	01-Oct-96	ND	ND	ND	ND
	01-Nov-97	DRY	DRY	DRY	DRY
	01-Jun-98	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY
	23-Oct-98	ND	ND	ND	ND
	14-Oct-99	Only VOCs and Metals were collected, not enough water produced			
	26-Oct-00	ND	ND	ND	ND
	05-Oct-01	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND
	10-Oct-03	ND	ND	ND	ND
	07-Oct-04	ND	ND	ND	ND
	07-Oct-04	ND	ND	ND	ND
01-DM-102S-M	31-Oct-00	DRY	DRY	DRY	DRY
	08-Oct-01	Only VOCs were collected, not enough water produced			
	08-Oct-02	DRY	DRY	DRY	DRY
	16-Oct-03	Only VOCs were collected, not enough water produced			
	13-Oct-04	DRY	DRY	DRY	DRY
01-DM-102D-M	31-Oct-00	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND
	13-Oct-04	ND	ND	ND	ND
01-004-M	27-Oct-00	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND
	07-Oct-03	ND	ND	ND	ND
	20-Oct-04	ND	ND	ND	ND

NCL = No Compliance Level set for these chemicals  
ND = Not Detected  
µg/L = micrograms per liter

**Table 2-10**  
**Landfill 10 Groundwater Analytical Results Summary - Dioxins**  
**Wright-Patterson AFB, Ohio**  
**Page 1 of 4**

LOCATION	DATE	Total-HPCDD	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8-HXCDD	2,3,7,8-TCDD	2,3,7,8-TCDF	OCDD	OCDF
Units		pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
Compliance Level - ROD		56.7	56.7	5.67	0.567	5.67	567	567
Compliance Level - MCL		NCL	NCL	NCL	30	NCL	NCL	NCL
LF10-MW03A	26-Oct-00	2.4 JQ	ND	ND	ND	ND	14 JB	3.3 JQ
	05-Oct-01	VOCs and SVOCs only were collected, not enough water produced						--
	11-Oct-02	VOCs and Inorganics only were collected, not enough water produced						--
	16-Oct-03	VOCs and Cyanide only were collected, not enough water produced						--
	13-Oct-04	VOCs and Inorganics only were collected, not enough water produced						--
LF10-MW05B	23-Oct-98	ND	ND	ND	ND	ND	1.8 JBQ	ND
	Duplicate 23-Oct-98	ND	ND	ND	ND	ND	3.8 JQB	ND
	12-Oct-99	ND	ND	ND	ND	ND	5.3 JB	ND
	25-Oct-00	ND	ND	ND	ND	ND	7.7 JB	ND
	03-Oct-01	ND	ND	ND	ND	ND	ND	6.4 J
	Duplicate 03-Oct-01	ND	ND	ND	ND	ND	ND	3.6 J
	02-Oct-02	ND	1.5 JB	ND	ND	ND	2.3 JBQ	2.3 JBQ
	Duplicate 02-Oct-02	1.4 JBQ	1.9 JBQ	ND	ND	ND	5.0 JB	3.6 JBQ
	30-Sep-03	ND	ND	ND	ND	ND	1.6 JBQ	ND
	Duplicate 30-Sep-03	ND	ND	ND	ND	ND	1.4 JBQ	ND
	04-Oct-04	3.8 JBQ	1.4 JB	2.7 JB	ND	ND	9.9 JB	9.0 JB
	Duplicate 04-Oct-04	7.1 JB	3.3 JB	3.1 JBQ	ND	ND	7.6 JB	6.5 JBQ
LF10-MW05C	30-Oct-98	ND	ND	ND	ND	ND	18 JB	10 J
	14-Oct-99	1.3 JQB	1.0 JQB	ND	ND	ND	14 JB	0.9 JB
	25-Oct-00	1.5 JQ	ND	ND	(1.5 JQ)	ND	15 JB	ND
	03-Oct-01	ND	ND	ND	ND	ND	3.5 JBQ	4.8 JQ
	02-Oct-02	NC	NC	NC	NC	NC	NC	NC
	30-Sep-03	2.4 JBQ	ND	ND	ND	ND	2.3 JB	ND
	06-Oct-04	2.8 JBQ	ND	ND	ND	ND	7.6 JBQ	ND
LF10-MW06A	27-Oct-98	10 JQB	ND	ND	ND	ND	220 JB	ND
	12-Oct-99	ND	ND	ND	ND	ND	2 JB	ND
	25-Oct-00	ND	ND	ND	ND	ND	8.9 JB	ND
	08-Oct-01	ND	ND	ND	ND	ND	4.3 JBQ	ND
	10-Oct-02	ND	ND	ND	ND	ND	5.1 JBQ	ND
	13-Oct-03	ND	ND	ND	ND	ND	1.0 JBQ	ND
	11-Oct-04	ND	ND	ND	ND	ND	ND	ND
LF10-MW06A DUP**	25-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09-Oct-01	VOCs only were collected, not enough water produced						--
	10-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	14-Oct-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	12-Oct-04	VOCs only were collected, not enough water produced						--
LF10-MW06B	26-Oct-98	ND	ND	ND	ND	ND	2.5 JB	ND
	12-Oct-99	ND	ND	ND	ND	ND	1.7 JQB	ND
	25-Oct-00	ND	ND	ND	ND	ND	5.8 JB	1.5 JB
	08-Oct-01	ND	ND	ND	ND	ND	ND	7.7 JBQ
	10-Oct-02	NC	NC	NC	NC	NC	NC	NC
	13-Oct-03	1.4 JQ	1.0 J	ND	ND	ND	8.3 JB	4.3 JQ
	11-Oct-04	ND	ND	ND	ND	ND	2.0 JBQ	ND
LF10-MW07A	26-Oct-00	ND	ND	ND	ND	ND	2.7 JB	ND
	Duplicate 26-Oct-00	ND	ND	ND	ND	ND	3.0 JB	ND
	04-Oct-01	ND	ND	ND	ND	ND	13 JB	ND
	Duplicate 04-Oct-01	ND	ND	ND	ND	ND	2.3 JB	ND
	03-Oct-02	ND	ND	ND	ND	ND	3.3 B J	ND
	Duplicate 03-Oct-02	ND	ND	ND	ND	ND	1.9 JBQ	2.1 JBQ
	08-Oct-03	ND	ND	ND	ND	ND	ND	ND
	Duplicate 08-Oct-03	ND	ND	ND	ND	ND	2.8 JBQ	ND
	11-Oct-04	ND	ND	ND	ND	ND	ND	ND
Duplicate	11-Oct-04	ND	ND	ND	ND	ND	1.3 JBQ	1.7 JB



**Table 2-10**  
**Landfill 10 Groundwater Analytical Results Summary - Dioxins**  
**Wright-Patterson AFB, Ohio**  
**Page 2 of 4**

LOCATION	DATE	Total-HPCDD	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8-HXCDD	2,3,7,8-TCDD	2,3,7,8-TCDF	OCDD	OCDF
Units		pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
Compliance Level - ROD		56.7	56.7	5.67	0.567	5.67	567	567
Compliance Level - MCL		NCL	NCL	NCL	30	NCL	NCL	NCL
LF10-MW07B	26-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	04-Oct-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	04-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	08-Oct-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	20-Oct-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY
LF10-MW07C	26-Oct-00	ND	ND	ND	ND	ND	24 JBQ	ND
	04-Oct-01	VOCs, SVOCs, and Metals only were collected, not enough water produced						—
	04-Oct-02	VOCs, SVOCs, Metals, Pest/PCBs, Ammonia and Cyanide only collected, not enough water produced						—
	09-Oct-03	VOCs, Metals, Ammonia and Cyanide only were collected, not enough water produced						—
	11-Oct-04	ND	ND	ND	ND	ND	ND	ND
LF10-MW08A-2 Duplicate	20-Oct-98	ND	ND	ND	ND	ND	6.8 JB	ND
	13-Oct-99	NC	NC	NC	NC	NC	NC	NC
	13-Oct-99	NC	NC	NC	NC	NC	NC	NC
	18-Oct-00	ND	ND	ND	ND	ND	6.3 JB	ND
	04-Oct-01	ND	ND	ND	ND	ND	20 JB	ND
	16-Oct-02	ND	ND	ND	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND	ND	4.0 JBQ	ND
	13-Oct-04	ND	0.91 JBQ	ND	ND	ND	4.0 JB	2.0 JBQ
LF10-MW08B Duplicate	29-Oct-98	ND	ND	ND	ND	ND	ND	ND
	29-Oct-98	ND	ND	ND	ND	ND	3.3 JB	ND
	13-Oct-99	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	26-Oct-00	NC	NC	NC	NC	NC	NC	NC
	08-Oct-01	ND	ND	ND	ND	ND	3.7 JB	ND
	14-Oct-02	ND	ND	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND	1.8 JB	ND
	18-Oct-04	ND	ND	ND	ND	ND	3.9 JB	ND
LF10-MW09A	01-Nov-98	ND	ND	ND	ND	ND	2.4	ND
	18-Oct-99	ND	0.3 JQ	ND	ND	ND	4.0 JB	ND
	30-Oct-00	ND	ND	ND	ND	ND	4.6 JB	1.3 JBQ
	03-Oct-01	ND	ND	ND	ND	ND	4.2 JB	3.6 JQ
	07-Oct-02	ND	ND	ND	ND	ND	6.2 JB	ND
	30-Sep-03	ND	ND	ND	ND	ND	1.5 JBQ	ND
	11-Oct-04	ND	ND	ND	ND	ND	4.2 JBQ	2.4 JBQ
LF10-MW09B	19-Oct-98	ND	ND	ND	ND	ND	2.6 JBQ	ND
	18-Oct-99	0.60 JQ	0.48 JQ	ND	ND	ND	2.7 BJQ	1.1 BJQ
	26-Oct-00	ND	ND	ND	ND	ND	4.1 JBQ	1.9 JQ
	03-Oct-01	ND	ND	ND	ND	ND	ND	4.6 J
	07-Oct-02	1.4 JB	1.6 JBQ	ND	ND	ND	7.3 JBQ	4.8 JBQ
	30-Sep-03	ND	ND	ND	ND	ND	ND	2.2 JB
	11-Oct-04	3.5 JBQ	ND	ND	ND	ND	23 JBQ	15 JB
LF10-MW09C	29-Oct-98	ND	ND	ND	ND	ND	ND	ND
	18-Oct-99	NC	NC	NC	NC	NC	NC	NC
	30-Oct-00	NC	NC	NC	NC	NC	NC	NC
	03-Oct-01	ND	ND	ND	ND	ND	ND	2.3 JQ
	07-Oct-02	ND	1.3 JBQ	ND	ND	ND	9.5 JB	4.2 JB
	30-Sep-03	ND	ND	ND	ND	ND	2.1 JB	ND
LF10-MW10C	11-Oct-04	ND	ND	ND	ND	ND	ND	ND
	30-Oct-00	0.60 J	ND	ND	ND	ND	3.9 JB	0.98 JBQ
	09-Oct-01	ND	ND	ND	ND	ND	4.0 JBQ	ND
	08-Oct-02	ND	1.7 JBQ	ND	ND	ND	4.9 JB	9.0 JB
	30-Sep-03	ND	ND	ND	ND	ND	ND	ND
	06-Oct-04	5.0 JB	2.3 JBQ	2.3 JBQ	ND	ND	12 JB	8.8 JB

**Table 2-10**  
**Landfill 10 Groundwater Analytical Results Summary - Dioxins**  
**Wright-Patterson AFB, Ohio**  
**Page 3 of 4**

LOCATION	DATE	Total-HPCDD	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8-HXCDD	2,3,7,8-TCDD	2,3,7,8-TCDF	OCDD	OCDF
Units		pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
Compliance Level - ROD		56.7	56.7	5.67	0.567	5.67	567	567
Compliance Level - MCL		NCL	NCL	NCL	30	NCL	NCL	NCL
LF10-MW11A	26-Oct-98	1.5 J	ND	ND	ND	ND	12 JB	1.1 JQ
	Duplicate 26-Oct-98	4.7 JQS	ND	ND	(3.8 J)	ND	74 JB	2.4 J
	14-Oct-99	ND	ND	ND	ND	ND	6.5 JB	ND
	Duplicate 14-Oct-99	ND	ND	ND	ND	ND	6.5 JB	ND
	30-Oct-00	ND	ND	ND	(6.0 JQ)	ND	1.7 JBQ	ND
	Duplicate 30-Oct-00	ND	ND	ND	ND	ND	1.6 JBQ	ND
	04-Oct-01	ND	ND	ND	ND	ND	11 JBQ	ND
	Duplicate 04-Oct-01	ND	ND	ND	ND	ND	10 JBQ	ND
	03-Oct-02	ND	ND	ND	ND	ND	2.1 JBQ	ND
	Duplicate 03-Oct-02	ND	ND	ND	ND	ND	2.2 JB	ND
	14-Oct-03	ND	ND	ND	ND	ND	4.1 JBQ	2.2 J
	Duplicate 14-Oct-03	1.3 JQ	ND	ND	ND	ND	4.5 JBQ	2.2 J
LF10-MW11B	11-Oct-04	ND	ND	ND	ND	ND	ND	ND
	26-Oct-98	ND	ND	ND	ND	ND	3.6 JB	ND
	14-Oct-99	1.0 JQB	ND	ND	ND	ND	14 JB	1.0 JB
	30-Oct-00	ND	ND	ND	ND	ND	2.4 JB	ND
	05-Oct-01	ND	ND	ND	ND	ND	ND	ND
	Duplicate 08-Oct-01	ND	ND	ND	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND	4.2 JB	3.0 JB
	15-Oct-03	ND	ND	ND	ND	ND	2.4 JB	ND
	12-Oct-04	ND	ND	ND	ND	ND	ND	ND
	Duplicate 12-Oct-04	ND	ND	ND	ND	ND	ND	ND
LF10-MW102	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	29-Oct-98	ND	ND	ND	ND	ND	18 JB	ND
	18-Oct-99	2.8 JQ	0.68 JQ	ND	ND	ND	24 JB	1.2 JB
	25-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	05-Oct-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	08-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09-Oct-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	06-Oct-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY
LF10-MW103	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	23-Oct-98	NC	NC	NC	NC	NC	NC	NC
	19-Oct-99	2.5 J	0.47 JQ	ND	ND	ND	9.8 JB	0.98 JBQ
	26-Oct-00	1.3 JQ	ND	ND	ND	ND	10 JB	ND
	08-Oct-01	VOCs, SVOCs, and Metals only were collected, not enough water produced						—
	08-Oct-02	ND	3.9 JBQ	ND	ND	ND	11 JB	25 JB
	10-Oct-03	VOCs, SVOCs, Metals, Ammonia and Cyanide only were collected, not enough water produced						—
	07-Oct-04	3.3 JB	ND	ND	ND	ND	11 JBQ	5.8 JB
LF10-MW104	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	18-Oct-99	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	25-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	05-Oct-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	07-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09-Oct-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	06-Oct-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY

**Table 2-10**  
**Landfill 10 Groundwater Analytical Results Summary - Dioxins**  
**Wright-Patterson AFB, Ohio**  
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LOCATION	DATE	Total- HPCDD	1,2,3,4,6,7,8- HPCDF	1,2,3,4,7,8- HXCDD	2,3,7,8- TCDD	2,3,7,8- TCDF	OCDD	OCDF
Units		pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
Compliance Level - ROD		56.7	56.7	5.67	0.567	5.67	567	567
Compliance Level - MCL		NCL	NCL	NCL	30	NCL	NCL	NCL
LF10-MW105	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	23-Oct-98	ND	ND	ND	ND	ND	3.1 JBQ	ND
	14-Oct-99*	ND	ND	ND	ND	ND	4.5 JB	ND
	26-Oct-00	ND	ND	ND	ND	ND	2.7 JB	0.73 J
	05-Oct-01	ND	ND	ND	ND	ND	4.5 JB	ND
	02-Oct-02	VOCs, SVOCs, Metals, Pest/PCBs, Ammonia and Cyanide only collected, not enough water produced						
	10-Oct-03	VOCs, SVOCs, Metals, Pest/PCBs, Ammonia and Cyanide only collected, not enough water produced						
	07-Oct-04	VOCs, SVOCs, Metals, Pest/PCBs, Ammonia and Cyanide only collected, not enough water produced						
01-DM-102S-M	31-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	08-Oct-01	VOCs only were collected, not enough water produced					--	--
	08-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	16-Oct-03	VOCs only were collected, not enough water produced					--	--
	13-Oct-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY
01-DM-102D-M	31-Oct-00	ND	ND	ND	ND	ND	7.9 JB	ND
	08-Oct-01	ND	ND	ND	ND	ND	26 JBQ	ND
	08-Oct-02	ND	ND	ND	ND	ND	7.1 JBQ	ND
	30-Sep-03	ND	1.1 JBQ	ND	ND	ND	4.7 JBQ	2.7 JBQ
	13-Oct-04	ND	ND	ND	ND	ND	4.8 JB	ND
01-004-M	27-Oct-00	ND	ND	ND	ND	ND	5.1 JBQ	ND
	03-Oct-01	ND	ND	ND	ND	ND	ND	7.8 J
	02-Oct-02	ND	ND	ND	ND	ND	4.6 JB	3.4 JB
	07-Oct-03	ND	ND	ND	ND	ND	2.3 JB	ND
	20-Oct-04	ND	1.3 JB	ND	ND	ND	3.8 JB	2.5 JBQ

NCL = No Compliance Level set for these chemicals

J = Estimated Result

Q = Estimated Maximum Possible Concentration

B = Method Blank Contamination

\* = Partial sample used for dioxin analysis

\*\* = MW06A DUP is a separate well

pg/L = picograms per liter

() = Concentration exceeds a compliance level

NS = Not Sampled

NA = Not Available

ND = Not Detected

NC = Not Collected

**Table 2-11**  
**Landfill 10 Groundwater Analytical**  
**Results Summary - Pesticides/PCBs**  
**Wright-Patterson AFB, Ohio**  
**Page 1 of 5**

LOCATION	DATE	AROCLOR 1242	AROCLOR 1248	AROCLOR 1254	AROCLOR 1260	DIELDRIN
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	NCL	NCL	NCL	NCL
LF10-MW03A	26-Oct-00	ND	ND	ND	ND	ND
	05-Oct-01	VOCs and SVOCs only were collected, not enough water produced				
	11-Oct-02	VOCs and Inorganics only were collected, not enough water produced				
	16-Oct-03	VOCs and Cyanide only were collected, not enough water produced				
	13-Oct-04	VOCs and Inorganics only were collected, not enough water produced				
LF10-MW05B	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	23-Oct-98	ND	ND	ND	ND	ND
	Duplicate 23-Oct-98	ND	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND	ND
	Duplicate 03-Oct-01	ND	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND	ND
	Duplicate 02-Oct-02	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND
	Duplicate 30-Sep-03	ND	ND	ND	ND	ND
	04-Oct-04	ND	ND	ND	ND	ND
	Duplicate 04-Oct-04	ND	ND	ND	ND	ND
LF10-MW05C	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	30-Oct-98	NS	NS	NS	NS	NS
	14-Oct-99	VOCs, Inorganics, SVOCs, and Dioxins only collected, not enough water produced				
	25-Oct-00	ND	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND	ND
LF10-MW06A	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	27-Oct-98	ND	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND	ND
	10-Oct-02	ND	ND	ND	ND	ND
	13-Oct-03	ND	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND	ND
LF10-MW06A DUP*	25-Oct-00	DRY	DRY	DRY	DRY	DRY
	09-Oct-01	VOCs only were collected, not enough water produced				
	10-Oct-02	DRY	DRY	DRY	DRY	DRY
	14-Oct-03	DRY	DRY	DRY	DRY	DRY
	12-Oct-04	VOCs only were collected, not enough water produced				
LF10-MW06B	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	26-Oct-98	ND	ND	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND	ND
	10-Oct-02	ND	ND	ND	ND	ND
	13-Oct-03	ND	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND	ND

**Table 2-11**  
**Landfill 10 Groundwater Analytical**  
**Results Summary - Pesticides/PCBs**  
**Wright-Patterson AFB, Ohio**  
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LOCATION	DATE	AROCLOR 1242	AROCLOR 1248	AROCLOR 1254	AROCLOR 1260	DIELDRIN
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	NCL	NCL	NCL	NCL
LF10-MW07A	26-Oct-00	ND	ND	ND	ND	ND
Duplicate	26-Oct-00	ND	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND	ND
Duplicate	04-Oct-01	ND	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND
Duplicate	03-Oct-02	ND	ND	ND	ND	ND
	08-Oct-03	ND	ND	ND	ND	ND
Duplicate	08-Oct-03	ND	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND	ND
Duplicate	11-Oct-04	ND	ND	ND	ND	ND
LF10-MW07B	26-Oct-00	DRY	DRY	DRY	DRY	DRY
	04-Oct-01	DRY	DRY	DRY	DRY	DRY
	04-Oct-02	DRY	DRY	DRY	DRY	DRY
	08-Oct-03	DRY	DRY	DRY	DRY	DRY
	20-Oct-04	DRY	DRY	DRY	DRY	DRY
LF10-MW07C	26-Oct-00	VOCs and Dioxin only were collected, not enough water produced				
	04-Oct-01	VOCs, SVOCs, and Dioxin only were collected, not enough water produced				
	04-Oct-02	ND	ND	ND	ND	ND
	09-Oct-03	VOCs and Inorganics only were collected, not enough water produced				
	11-Oct-04	ND	ND	ND	ND	ND
LF10-MW08A-2	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	20-Oct-98	ND	ND	ND	ND	ND
	13-Oct-99	ND	ND	ND	ND	ND
Duplicate	13-Oct-99	ND	ND	ND	ND	ND
	18-Oct-00	ND	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND	ND
	16-Oct-02	ND	ND	ND	ND	ND
	06-Oct-03	ND	ND	ND	ND	ND
	13-Oct-04	ND	ND	ND	ND	ND
LF10-MW08B	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	29-Oct-98	ND	ND	ND	ND	ND
Duplicate	29-Oct-98	ND	ND	ND	ND	ND
	13-Oct-99	DRY	DRY	DRY	DRY	DRY
	26-Oct-00	ND	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND	ND
	14-Oct-02	ND	ND	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	ND
	18-Oct-04	ND	ND	ND	ND	ND
LF10-MW09A	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	01-Nov-98	ND	ND	ND	ND	ND
	18-Oct-99	ND	ND	ND	ND	ND
	30-Oct-00	ND	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND	ND

**Table 2-11**  
**Landfill 10 Groundwater Analytical**  
**Results Summary - Pesticides/PCBs**  
**Wright-Patterson AFB, Ohio**  
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LOCATION	DATE	AROCLOR 1242	AROCLOR 1248	AROCLOR 1254	AROCLOR 1260	DIELDRIN
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	NCL	NCL	NCL	NCL
LF10-MW09B	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	19-Oct-98	ND	ND	ND	ND	ND
	18-Oct-99	ND	ND	ND	ND	ND
	26-Oct-00	ND	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND	ND
LF10-MW09C	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	29-Oct-98	ND	ND	ND	ND	ND
	18-Oct-99	ND	ND	ND	ND	ND
	30-Oct-00	ND	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND	ND
	07-Oct-02	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND	ND
LF10-MW10C	30-Oct-00	ND	ND	ND	ND	ND
	09-Oct-01	ND	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND	ND
LF10-MW11A	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	26-Oct-98	ND	ND	ND	ND	ND
	Duplicate 26-Oct-98	ND	ND	ND	ND	ND
	14-Oct-99	ND	ND	ND	ND	ND
	Duplicate 14-Oct-99	ND	ND	ND	ND	ND
	30-Oct-00	ND	ND	ND	ND	ND
	Duplicate 30-Oct-00	ND	ND	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND	ND
	Duplicate 04-Oct-01	ND	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND
	Duplicate 03-Oct-02	ND	ND	ND	ND	ND
	14-Oct-03	ND	ND	ND	ND	ND
	Duplicate 14-Oct-03	ND	ND	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND	ND
LF10-MW11B	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	26-Oct-98	ND	ND	ND	ND	ND
	14-Oct-99	ND	ND	ND	ND	ND
	30-Oct-00	ND	ND	ND	ND	ND
	05-Oct-01	ND	ND	ND	ND	ND
	Duplicate 08-Oct-01	ND	ND	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND
	15-Oct-03	ND	ND	ND	ND	ND
	12-Oct-04	ND	ND	ND	ND	ND
	Duplicate 12-Oct-04	ND	ND	ND	ND	ND

**Table 2-11**  
**Landfill 10 Groundwater Analytical**  
**Results Summary - Pesticides/PCBs**  
**Wright-Patterson AFB, Ohio**  
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LOCATION	DATE	AROCLOR	AROCLOR	AROCLOR	AROCLOR	DIELDRIN
		1242	1248	1254	1260	
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	NCL	NCL	NCL	NCL
LF10-MW102	01-Nov-97	ND	ND	ND	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY
	29-Oct-98	NS	NS	NS	NS	NS
	18-Oct-99	VOC, Dioxin and SVOCs only were collected, not enough water produced				
	25-Oct-00	DRY	DRY	DRY	DRY	DRY
	05-Oct-01	DRY	DRY	DRY	DRY	DRY
	08-Oct-02	DRY	DRY	DRY	DRY	DRY
	09-Oct-03	DRY	DRY	DRY	DRY	DRY
	06-Oct-04	DRY	DRY	DRY	DRY	DRY
LF10-MW103	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY
	23-Oct-98	NS	NS	NS	NS	NS
	19-Oct-99	ND	ND	ND	ND	ND
	26-Oct-00	VOCs, SVOCs, Dioxins and Metals only were collected, not enough water produced				
	08-Oct-01	DRY	DRY	DRY	DRY	DRY
	08-Oct-02	ND	ND	ND	ND	ND
	10-Oct-03	VOC, SVOC, and Inorganics only were collected, not enough water produced				
LF10-MW104	07-Oct-04	ND	ND	ND	ND	ND
	01-Nov-97	DRY	DRY	DRY	DRY	DRY
	01-Jun-98	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY
	18-Oct-99	DRY	DRY	DRY	DRY	DRY
	25-Oct-00	DRY	DRY	DRY	DRY	DRY
	05-Oct-01	DRY	DRY	DRY	DRY	DRY
	07-Oct-02	DRY	DRY	DRY	DRY	DRY
	09-Oct-03	DRY	DRY	DRY	DRY	DRY
	06-Oct-04	DRY	DRY	DRY	DRY	DRY
LF10-MW105	01-Oct-96	ND	ND	ND	ND	ND
	01-Nov-97	ND	ND	ND	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY
	23-Oct-98	ND	ND	ND	ND	ND
	14-Oct-99	VOCs, Dioxins and Metals only were collected, not enough water produced				
	26-Oct-00	VOCs, SVOCs and Dioxins only were collected, not enough water produced				
	05-Oct-01	ND	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND	ND
	10-Oct-03	ND	ND	ND	ND	ND
01-DM-102S-M	07-Oct-04	ND	ND	ND	ND	ND
	31-Oct-00	DRY	DRY	DRY	DRY	DRY
	08-Oct-01	VOCs only were collected, not enough water produced				
	08-Oct-02	DRY	DRY	DRY	DRY	DRY
	16-Oct-03	VOCs only were collected, not enough water produced				
01-DM-102D-M	13-Oct-04	DRY	DRY	DRY	DRY	DRY
	31-Oct-00	ND	ND	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND	ND
	08-Oct-02	ND	ND	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND
	13-Oct-04	ND	ND	ND	ND	ND

**Table 2-11**  
**Landfill 10 Groundwater Analytical**  
**Results Summary - Pesticides/PCBs**  
**Wright-Patterson AFB, Ohio**  
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LOCATION	DATE	AROCLOR 1242	AROCLOR 1248	AROCLOR 1254	AROCLOR 1260	DIELDRIN
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Compliance Level - ROD		NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		NCL	NCL	NCL	NCL	NCL
01-004-M	27-Oct-00	ND	ND	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND	ND
	07-Oct-03	ND	ND	ND	ND	ND
	20-Oct-04	ND	ND	ND	ND	ND

\* = MW06A DUP is a separate well

NCL = No Compliance Level set for these chemicals

ND = Not Detected

NS = Not Sampled During this Round

µg/L = micrograms per liter



**Table 2-12**  
**Landfill 10 Groundwater Analytical Results Summary - Inorganics**  
**Wright-Patterson AFB, Ohio**  
**Page 1 of 4**

LOCATION	DATE	ARSENIC	BERYLLIUM	CADMIUM	COPPER	CYANIDE	IRON	LEAD	ZINC	AMMONIA
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compliance Level - ROD		11	0.02	NCL	NCL	NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		50	4	5	1,300	200	NCL	15	NCL	NCL
LF10-MW03A	19-Jan-92	ND	ND	ND	6 J	NS	ND	2 J	ND	NS
	26-Oct-00	ND	ND	ND	34	ND	7,500	9.9	ND	200
	26-Apr-01	ND	ND	ND	ND	NS	7,000	3.0	72	NS
	05-Oct-02	Only VOCs and SVOCs samples collected, not enough water produced								
	30-Apr-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	11-Oct-02	ND	ND	ND	ND	ND	7,200	3.1	ND	ND
	08-Apr-03	ND	ND	ND	ND	NS	3,300	ND	ND	NS
	16-Oct-03	Only VOCs and Cyanide samples collected, not enough water produced								
	29-Apr-04	ND	ND	ND	ND	NS	720	ND	ND	NS
	13-Oct-04	ND	ND	ND	ND	ND	5,700	ND	ND	ND
LF10-MW05B	01-Nov-97	ND	ND	ND	ND	ND	500	ND	ND	NS
	23-Oct-98	ND	ND	ND	ND	ND	390	ND	ND	800
	23-Oct-98	ND	ND	ND	ND	ND	430	ND	ND	1,000
	12-Oct-99	ND	ND	ND	ND	ND	290	ND	ND	800
	25-Oct-00	ND	ND	ND	ND	ND	210	ND	ND	300
	23-Apr-01	ND	ND	ND	ND	NS	240	ND	ND	NS
	03-Oct-01	ND	ND	ND	ND	ND	250	ND	ND	600
	03-Oct-01	ND	ND	ND	ND	25	250	ND	ND	600
	30-Apr-02	ND	ND	ND	ND	NS	130	ND	ND	NS
	02-Oct-02	ND	ND	ND	ND	ND	140	ND	ND	800
	02-Oct-02	ND	ND	ND	ND	ND	140	ND	ND	800
	21-Apr-03	ND	ND	ND	ND	NS	ND	ND	ND	NS
	21-Apr-03	ND	ND	ND	ND	NS	ND	ND	ND	NS
	30-Sep-03	ND	ND	ND	ND	ND	510	ND	ND	800
	30-Sep-03	ND	ND	ND	ND	ND	470	ND	ND	700
	23-Apr-04	ND	ND	ND	ND	NS	ND	ND	ND	NS
	23-Apr-04	ND	ND	ND	ND	NS	ND	ND	ND	NS
	04-Oct-04	ND	ND	ND	ND	ND	210	ND	ND	700
	04-Oct-04	ND	ND	ND	ND	ND	230	ND	ND	800
LF10-MW05C	01-Nov-97	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	30-Oct-98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	14-Oct-99	ND	ND	ND	ND	ND	1,800	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND	ND	9,900	3.4	ND	700
	03-Oct-01	ND	ND	ND	ND	12	3,100	ND	ND	300
	02-Oct-02	ND	ND	ND	ND	ND	3,300	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06-Oct-04	ND	ND	ND	ND	ND	1,300	ND	ND	ND
LF10-MW06A	19-May-91	ND	ND	ND	ND	ND	136	ND	26.8	840
	28-Aug-91	2 J	ND	ND	ND	ND	459 J	1 J	49 J	NS
	30-Jan-92	ND	ND	ND	3 J	NS	28 J	3 J	ND	NS
	01-Oct-96	ND	ND	0.8	ND	ND	7,060	(15)	ND	NS
	01-Nov-97	ND	ND	ND	ND	ND	1,700	ND	ND	NS
	27-Oct-98	ND	ND	ND	ND	ND	190	ND	ND	700
	12-Oct-99	ND	ND	ND	ND	ND	130	ND	ND	800
	25-Oct-00	ND	ND	ND	ND	ND	140	ND	ND	700
	25-Apr-01	ND	ND	ND	ND	NS	ND	ND	ND	NS
	08-Oct-01	ND	ND	ND	ND	ND	1,800	ND	ND	ND
	30-Apr-02	ND	ND	ND	ND	NS	130	ND	ND	NS
	10-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	700
	08-Apr-03	ND	ND	ND	ND	NS	ND	ND	ND	NS
	13-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	600
	22-Apr-04	ND	ND	ND	ND	NS	ND	ND	ND	NS
	11-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	700
LF10-MW06A DUP**	25-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09-Oct-01	Only VOC samples collected, not enough water produced								
	10-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	14-Oct-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	12-Oct-04	Only VOC samples collected, not enough water produced								
LF10-MW06B	30-May-91	4 J	ND	ND	5.7 J	ND	ND	2 J	ND	ND
	01-Oct-96	ND	ND	ND	ND	ND	1,020	ND	86	NS
	01-Nov-97	ND	ND	ND	ND	ND	900	ND	ND	NS
	26-Oct-98	ND	ND	ND	ND	ND	1,400	ND	ND	ND
	12-Oct-99	ND	ND	ND	ND	ND	670	ND	ND	ND
	25-Oct-00	ND	ND	ND	ND	ND	880	3.7	ND	NS
	08-Oct-01	ND	ND	ND	ND	ND	280	ND	ND	700
	10-Oct-02	(11)	ND	ND	ND	ND	1,300	ND	ND	ND
	13-Oct-03	(13)	ND	ND	ND	ND	1,300	ND	ND	ND
	11-Oct-04	(18)	ND	ND	ND	ND	1,500	ND	ND	ND

**Table 2-12**  
**Landfill 10 Groundwater Analytical Results Summary - Inorganics**  
**Wright-Patterson AFB, Ohio**  
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LOCATION	DATE	ARSENIC	BERYLLIUM	CADMIUM	COPPER	CYANIDE	IRON	LEAD	ZINC	AMMONIA
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compliance Level - ROD		11	0.02	NCL	NCL	NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		50	4	5	1,300	200	NCL	15	NCL	NCL
LF10-MW07A	21-May-91	10 J	ND	ND	ND	ND	3,540 J	2 J	ND	ND
	26-Aug-91	(12 J)	(0.9 J)	ND	ND	NS	39,600	(20 J)	166 J	NS
	28-Jan-92	(12)	ND	ND	3 J	NS	2,800	ND	ND	NS
	26-Oct-00	(12)	ND	ND	ND	ND	3,700	ND	ND	200
	Duplicate 26-Oct-00	(12)	ND	ND	ND	ND	3,500	ND	ND	ND
	23-Apr-01	ND	ND	ND	ND	NS	3,500	ND	ND	NS
	Duplicate 23-Apr-01	ND	ND	ND	ND	NS	3,400	ND	ND	NS
	04-Oct-01	ND	ND	ND	ND	ND	3,600	ND	ND	ND
	Duplicate 04-Oct-01	ND	ND	ND	ND	10	3,700	ND	ND	ND
	30-Apr-02	(11)	ND	ND	ND	NS	3,600	ND	ND	NS
	Duplicate 30-Apr-02	ND	ND	ND	ND	NS	3,800	ND	ND	NS
	03-Oct-02	ND	ND	ND	ND	ND	3,400	ND	ND	300
	Duplicate 03-Oct-02	ND	ND	ND	ND	ND	3,200	ND	ND	400
	21-Apr-03	ND	ND	ND	ND	NS	4,100	ND	ND	NS
	Duplicate 21-Apr-03	10	ND	ND	ND	NS	4,000	ND	ND	NS
	08-Oct-03	ND	ND	ND	ND	ND	3,900	ND	ND	200
	Duplicate 08-Oct-03	ND	ND	ND	ND	ND	3,800	ND	ND	200
	23-Apr-04	10	ND	ND	ND	NS	4,300	ND	ND	NS
	Duplicate 23-Apr-04	ND	ND	ND	ND	NS	4,100	ND	ND	NS
	11-Oct-04	ND	ND	ND	ND	ND	4,100	ND	ND	ND
	Duplicate 11-Oct-04	ND	ND	ND	ND	ND	4,200	ND	ND	ND
LF10-MW07B	26-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	04-Oct-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	04-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	08-Oct-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	20-Oct-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
LF10-MW07C	17-May-91	5 J	ND	ND	8 J	ND	271	ND	87 J	6030
	27-Aug-91	(11 J)	ND	ND	ND	NS	6,380	2 J	33 J	NS
	27-Jan-91	8 J	ND	ND	3 J	NS	164 J	2 J	ND	NS
	26-Oct-00	Only VOCs and Dioxin samples collected, not enough water produced								
	04-Oct-01	(16)	ND	ND	ND	NS*	3,200	ND	ND	NS*
	04-Oct-02	ND	ND	ND	31	ND	2,000	ND	ND	4,200
	09-Oct-03	ND	ND	ND	ND	ND	1,500	ND	ND	4,500
	11-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	1,900
LF10-MW08A-2	01-Nov-97	ND	ND	ND	ND	ND	10,000	5.0	ND	NS
	20-Oct-98	ND	ND	ND	ND	ND	1,200	ND	ND	ND
	13-Oct-99	ND	ND	ND	ND	ND	1,400	ND	ND	200
	Duplicate 13-Oct-99	ND	ND	ND	ND	ND	1,400	ND	ND	ND
	18-Oct-00	ND	ND	ND	ND	ND	1,500	ND	ND	ND
	25-Apr-01	ND	ND	ND	ND	NS	1,500	ND	ND	NS
	04-Oct-01	ND	ND	ND	ND	16	3,500	ND	ND	ND
	01-May-02	ND	ND	ND	ND	NS	1,400	ND	ND	NS
	16-Oct-02	ND	ND	ND	ND	ND	850	ND	ND	ND
	15-Apr-03	ND	ND	ND	ND	NS	1,300	ND	ND	NS
	06-Oct-03	ND	ND	ND	ND	ND	510	ND	ND	ND
	19-Apr-04	ND	ND	ND	ND	NS	1,100	ND	ND	NS
	13-Oct-04	ND	ND	ND	ND	42	6,200	ND	ND	ND
LF10-MW08B	01-Oct-96	(232)	(2.0)	3.3	67	ND	99,000	(50)	331	NS
	01-Nov-97	(50)	ND	ND	30	ND	41,000	(24)	110	NS
	29-Oct-98	ND	ND	ND	ND	ND	360	ND	52	ND
	Duplicate 29-Oct-98	ND	ND	ND	ND	ND	360	ND	ND	ND
	13-Oct-99	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	26-Oct-00	ND	ND	ND	ND	ND	1,000	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND	ND	470	ND	ND	200
	14-Oct-02	ND	ND	ND	ND	ND	1,600	ND	ND	ND
	09-Oct-03	ND	ND	ND	ND	36	1,200	ND	ND	300
	18-Oct-04	ND	ND	ND	ND	ND	1,000	ND	ND	500
LF10-MW09A	01-Oct-96	ND	ND	ND	ND	ND	2,550	6.0	ND	NS
	01-Nov-97	ND	ND	ND	ND	ND	2,500	ND	ND	NS
	01-Nov-98	ND	ND	ND	ND	ND	2,700	ND	ND	ND
	18-Oct-99	ND	ND	ND	ND	ND	1,900	ND	ND	ND
	30-Oct-00	ND	ND	ND	ND	ND	1,800	ND	ND	ND
	03-Oct-01	ND	ND	ND	ND	ND	1,600	ND	ND	300
	07-Oct-02	ND	ND	ND	ND	ND	1,300	ND	ND	ND
	30-Sep-03	ND	ND	ND	ND	ND	450	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND	ND	1,000	ND	ND	ND
LF10-MW09B	01-Oct-96	ND	ND	ND	ND	ND	2,550	6.0	ND	NS
	01-Nov-97	10	ND	ND	ND	ND	7,500	ND	ND	NS
	19-Oct-98	(13)	ND	ND	ND	ND	7,500	ND	ND	ND
	18-Oct-99	(13)	ND	ND	ND	ND	7,100	ND	ND	200
	26-Oct-00	(15)	ND	ND	ND	ND	7,800	ND	ND	200
	03-Oct-01	(14)	ND	ND	ND	18	7,700	ND	ND	200
	07-Oct-02	(14)	ND	ND	ND	ND	9,000	ND	ND	400
	30-Sep-03	(13)	ND	ND	ND	ND	10,100	ND	ND	200
	11-Oct-04	(16)	ND	ND	ND	ND	9,900	ND	ND	200

**Table 2-12**  
**Landfill 10 Groundwater Analytical Results Summary - Inorganics**  
**Wright-Patterson AFB, Ohio**  
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LOCATION	DATE	ARSENIC	BERYLLIUM	CADMIUM	COPPER	CYANIDE	IRON	LEAD	ZINC	AMMONIA
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compliance Level - ROD		11	0.02	NCL	NCL	NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		50	4	5	1,300	200	NCL	15	NCL	NCL
LF10-MW09C	01-Oct-96	ND	(1.0)	0.9	68	ND	67,300	(48)	263	NS
	01-Nov-97	10	ND	ND	ND	ND	30,000	ND	ND	NS
	29-Oct-98	ND	ND	ND	ND	ND	1,500	ND	ND	600
	18-Oct-99	(15)	ND	ND	ND	ND	5,100	ND	ND	400
	30-Oct-00	(16)	ND	ND	ND	ND	6,700	ND	ND	400
	25-Apr-01	ND	ND	ND	ND	NS	960	ND	ND	NS
	03-Oct-01	ND	ND	ND	ND	ND	280	ND	ND	300
	01-May-02	ND	ND	ND	ND	NS	1,500	ND	ND	NS
	01-May-02	ND	ND	ND	ND	NS	1,400	ND	ND	NS
	07-Oct-02	ND	ND	ND	ND	ND	1,000	ND	ND	300
	22-Apr-03	ND	ND	ND	ND	NS	1,800	ND	ND	NS
	30-Sep-03	ND	ND	ND	ND	ND	1,300	ND	ND	NS
	23-Apr-04	(16)	ND	ND	ND	NS	6,100	ND	ND	NS
	11-Oct-04	ND	ND	ND	ND	ND	3,400	ND	ND	400
LF10-MW10C	16-May-91	4	ND	ND	ND	ND	75 J	2 J	ND	ND
	23-Aug-91	2 J	ND	ND	ND	NS	5,210	2 J	ND	NS
	30-Jan-92	ND	ND	ND	ND	NS	2,720	ND	ND	NS
	30-Oct-00	ND	ND	ND	ND	ND	600	ND	ND	ND
	26-Apr-01	ND	ND	ND	ND	NS	370	ND	ND	NS
	09-Oct-01	ND	ND	ND	ND	15	740	ND	ND	ND
	01-May-02	ND	ND	ND	ND	NS	170	ND	ND	NS
	08-Oct-02	ND	ND	ND	ND	ND	210	ND	ND	ND
	08-Apr-03	ND	ND	ND	ND	NS	120	ND	ND	NS
	08-Apr-03	ND	ND	ND	ND	NS	130	ND	ND	NS
	30-Sep-03	ND	ND	ND	ND	ND	210	ND	ND	ND
	22-Apr-04	ND	ND	ND	ND	NS	ND	ND	ND	NS
	22-Apr-04	ND	ND	ND	ND	NS	ND	ND	ND	NS
	06-Oct-04	ND	ND	ND	ND	ND	170	ND	ND	ND
LF10-MW11A	01-Oct-96	ND	ND	ND	ND	ND	1,760	ND	ND	NS
	01-Nov-97	ND	ND	ND	ND	ND	2,600	ND	ND	NS
	26-Oct-98	ND	ND	ND	ND	ND	1,100	ND	ND	200
	26-Oct-98	ND	ND	ND	ND	ND	1,100	ND	ND	ND
	14-Oct-99	ND	ND	ND	ND	ND	1,100	ND	ND	ND
	14-Oct-99	ND	ND	ND	ND	ND	1,100	ND	ND	200
	30-Oct-00	ND	ND	ND	ND	ND	1,200	ND	ND	ND
	30-Oct-00	ND	ND	ND	ND	ND	1,200	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND	16	990	ND	ND	ND
	04-Oct-01	ND	ND	ND	ND	12	970	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND	720	ND	ND	200
	03-Oct-02	ND	ND	ND	ND	ND	710	ND	ND	200
	14-Oct-03	ND	ND	ND	ND	ND	1,100	ND	ND	ND
	14-Oct-03	ND	ND	ND	ND	ND	1,300	ND	ND	ND
	11-Oct-04	ND	ND	ND	ND	ND	2,000	ND	ND	ND
LF10-MW11B	01-Oct-96	ND	ND	ND	ND	ND	12,100	12	58	NS
	01-Nov-97	10	ND	ND	20	ND	22,000	13	60	NS
	26-Oct-98	ND	ND	ND	ND	ND	2,900	ND	300	ND
	14-Oct-99	ND	ND	ND	ND	ND	3,400	ND	ND	200
	30-Oct-00	ND	ND	ND	ND	ND	3,100	ND	ND	ND
	05-Oct-01	ND	ND	ND	ND	ND	3,200	ND	ND	ND
	08-Oct-01	ND	ND	ND	ND	21	2,000	ND	ND	ND
	03-Oct-02	ND	ND	ND	ND	ND	3,100	ND	ND	ND
	15-Oct-03	ND	ND	ND	ND	ND	5,100	ND	ND	ND
	12-Oct-04	ND	ND	ND	ND	ND	4,000	ND	ND	ND
	12-Oct-04	ND	ND	ND	ND	ND	3,900	ND	ND	ND
	01-Nov-97	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	29-Oct-98	NS	NS	NS	NS	NS	NS	NS	NS	NS
LF10-MW102	18-Oct-99	VOC, Dioxin and SVOCs only were collected, not enough water produced					-	-	-	-
	25-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	25-Apr-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	05-Oct-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	30-Apr-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	08-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	23-Apr-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09-Oct-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	28-Apr-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	06-Oct-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Nov-97	(273)	(10)	ND	631	ND	407,000	(233)	1460	NS
	01-Nov-97	(70)	ND	ND	20	ND	27,000	ND	ND	NS
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
LF10-MW103	23-Oct-98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	19-Oct-99	(56)	ND	ND	ND	ND	20,300	ND	95	3,400
	26-Oct-00	(47)	ND	ND	ND	NS*	13,400	ND	66	NS*
	25-Apr-01	(67)	ND	ND	36	NS	22,100	3.4	300	NS
	08-Oct-01	(110)	ND	ND	ND	NS*	28,300	ND	ND	NS*
	30-Apr-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	08-Oct-02	(22)	ND	ND	ND	ND	6,300	ND	360	3,000
	23-Apr-03	(43)	ND	ND	ND	NS	10,600	(110)	67	NS
	10-Oct-03	(57)	ND	ND	ND	ND	15,400	ND	170	3,200
	23-Apr-04	(58)	ND	ND	ND	NS	12,600	ND	130	NS
	07-Oct-04	(43)	ND	ND	ND	ND	10,500	ND	ND	2,600

**Table 2-12**  
**Landfill 10 Groundwater Analytical Results Summary - Inorganics**  
**Wright-Patterson AFB, Ohio**  
**Page 4 of 4**

LOCATION	DATE	ARSENIC	BERYLLIUM	CADMIUM	COPPER	CYANIDE	IRON	LEAD	ZINC	AMMONIA
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Compliance Level - ROD		11	0.02	NCL	NCL	NCL	NCL	NCL	NCL	NCL
Compliance Level - MCL		50	4	5	1,300	200	NCL	15	NCL	NCL
LF10-MW104	01-Nov-97	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	18-Oct-99	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	25-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	25-Apr-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	05-Oct-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	30-Apr-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	07-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	17-Apr-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09-Oct-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	29-Apr-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	06-Oct-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
LF10-MW105	01-Oct-96	ND	ND	ND	ND	ND	1,310	ND	ND	NS
	01-Nov-97	ND	ND	ND	20	ND	4,100	ND	ND	ND
	01-Jun-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	01-Sep-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	23-Oct-98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	14-Oct-99	ND	ND	ND	ND	NS	570	ND	ND	NS*
	26-Oct-00	VOCs, SVOCs and Dioxins only were collected, not enough water produced				NS	150	ND	ND	NS
	25-Apr-01	ND	ND	ND	ND	NS	390	ND	ND	NS*
	05-Oct-01	ND	ND	ND	ND	NS	230	ND	ND	NS
	30-Apr-02	ND	ND	ND	ND	NS	140	ND	ND	ND
	02-Oct-02	ND	ND	ND	ND	NS	110	ND	ND	ND
	23-Apr-03	ND	ND	ND	ND	NS	1,300	ND	280	200
	10-Oct-03	ND	ND	ND	ND	NS	730	ND	ND	NS
	29-Apr-04	ND	ND	ND	ND	NS	190	ND	ND	ND
	07-Oct-04	ND	ND	ND	ND	NS	190	ND	ND	ND
01-DM-102S-M	31-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	08-Oct-01	VOCs only were collected, not enough water produced				—	—	—	—	—
	08-Oct-02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	16-Oct-03	VOCs only were collected, not enough water produced				—	—	—	—	—
01-DM-102D-M	13-Oct-04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	16-May-91	4 J	ND	ND	ND	ND	ND	ND	ND	NS
	04-Sep-91	(25)	(1 J)	ND	ND	NS	21,700	21 J	ND	NS
	20-Jan-92	6 J	ND	ND	9 J	NS	61 J	2 J	5 J	NS
	31-Oct-00	ND	ND	ND	ND	ND	2,500	4	ND	ND
	25-Apr-01	ND	ND	ND	ND	NS	330	ND	ND	NS
	08-Oct-01	ND	ND	ND	ND	NS	7,700	3.9	81	ND
	01-May-02	ND	ND	ND	ND	NS	ND	ND	ND	NS
	08-Oct-02	ND	ND	ND	ND	NS	220	ND	ND	ND
	08-Apr-03	ND	ND	ND	ND	NS	ND	ND	ND	NS
	30-Sep-03	ND	ND	ND	ND	NS	ND	ND	ND	NS
	22-Apr-04	ND	ND	ND	ND	NS	ND	ND	ND	NS
	13-Oct-04	ND	ND	ND	ND	48	ND	ND	ND	ND
01-004-M	21-May-91	4 J	ND	ND	ND	NS	419 J	2 J	ND	490
	05-Sep-91	5 J	ND	ND	ND	NS	1,800	2 J	ND	NS
	27-Oct-00	(16,100)	ND G	ND G	ND G	ND	6,910,000	ND G	ND G	ND
	03-Oct-01	(44)	ND	ND	ND	ND	25,100	ND	ND	200
	30-Apr-02	(17)	ND	ND	ND	NS	6,600	ND	ND	NS
	02-Oct-02	(18)	ND	ND	ND	10	11,800	ND	ND	ND
	21-Apr-03	(110)	ND	ND	ND	NS	54,900	ND	ND	NS
	07-Oct-03	(54)	ND	ND	ND	NS	28,200	ND	ND	NS
	29-Apr-04	(37)	ND	ND	ND	NS	17,500	ND	ND	NS
	20-Oct-04	(100)	ND	ND	ND	ND	50,000	ND	ND	ND

NS = Not Sampled  
NS\* = Well did not produce enough water to collect all samples.

ND = Not Detected  
ND G = Not Detected, but the reporting limit was elevated due to matrix interference

NCL = No Compliance Level set for these chemicals.  
\*\* = MW06A DUP is a separate well

µg/L = micrograms per liter  
( ) = Concentration exceeds a compliance level.

**Table 2-13**  
**Landfill 8 Landfill Gas Monitoring**  
**Field Measurements**  
**Wright-Patterson AFB, Ohio**  
**Page 1 of 2**

Location --Dist./Dir. From Nearest Structure	Date Monitored	Probe Press. (2) (in. of Hg)	Probe Oxygen (%)	(% Methane / % LEL)		Methane TLV (%) (5)	Comments
				Initial (3)	Sustained (4)		
<b>Monitor Points</b>							
LF08-MP001 --91 ft West	15-Jul-03	29.1	19.8	0/0	--	0.11	
	23-Sep-03	29.2	16.2	0/0	--	0.11	
	20-Feb-04	Pump pulled water - readings not collected			--	0.11	
	07-Apr-04	28.9	9.9	0/0	--	0.11	
	27-Jul-04	29.1	17.2	0/0	--	0.11	
	30-Sep-04	29.2	10.2	0/0	--	0.11	
LF08-MP002 --150 ft West	15-Jul-03	29.1	19.9	0/0	--	0.19	
	23-Sep-03	Pump pulled water - readings not collected			--	0.19	
	20-Feb-04	28.5	6.0	0/0	--	0.19	
	07-Apr-04	28.9	20.1	0/0	--	0.19	
	27-Jul-04	29.1	17.8	0/0	--	0.19	
	30-Sep-04	29.2	19.3	0/0	--	0.19	
LF08-MP003 --200 ft West	15-Jul-03	29.1	19.8	0/0	--	0.25	
	23-Sep-03	29.2	19.4	0/0	--	0.25	
	20-Feb-04	28.6	20.2	0/0	--	0.25	
	07-Apr-04	Pump pulled water - readings not collected			--	0.25	
	27-Jul-04	29.1	17.9	0/0	--	0.25	
	30-Sep-04	29.2	16.7	0/0	--	0.25	
LF08-MP004 --160 ft West	15-Jul-03	29.1	19.8	0/0	--	0.23	
	23-Sep-03	Pump pulled water - readings not collected			--	0.23	
	20-Feb-04	28.6	20.1	0/0	--	0.23	
	07-Apr-04	Pump pulled water - readings not collected			--	0.23	
	27-Jul-04	29.1	17.6	0/0	--	0.23	
	30-Sep-04	Pump pulled water - readings not collected			--	0.23	
LF08-MP006 --39 ft South	15-Jul-03	29.1	16.7	0/0	--	0.05	
	23-Sep-03	29.2	7.6	0/0	--	0.05	
	20-Feb-04	No reading, ice in casing, fitting frozen.			--	0.05	
	07-Apr-04	Construction in area - unable to access location for readings			--	0.05	
	27-Jul-04	29.1	8.5	0/0	--	0.05	
	30-Sep-04	29.2	17.2	0/0	--	0.05	
LF08-MP007 --50 ft North	15-Jul-03	29.1	13.9	0/0	--	0.06	
	23-Sep-03	29.2	19.8	0/0	--	0.06	
	20-Feb-04	28.5	19.4	0/0	--	0.06	
	07-Apr-04	28.9	20.2	0/0	--	0.06	
	27-Jul-04	29.1	19.5	0/0	--	0.06	
	30-Sep-04	29.2	19.0	0/0	--	0.06	
LF08-MP008 --17 ft North	15-Jul-03	29.1	19.8	0/0	--	0.02	
	23-Sep-03	29.2	10.6	1.4/0	--	0.02	
	20-Feb-04	Pump pulled water - readings not collected			--	0.02	
	07-Apr-04	Pump pulled water - readings not collected			--	0.02	
	27-Jul-04	29.1	19.8	0/0	--	0.02	
	30-Sep-04	Pump pulled water - readings not collected			--	0.02	
LF08-MP009 --20 ft North	15-Jul-03	29.1	15.7	0/0	--	0.03	
	23-Sep-03	29.2	5.1	0/0	--	0.03	
	20-Feb-04	28.5	1.3	0/0	--	0.03	
	07-Apr-04	28.9	20.5	0/0	--	0.03	
	27-Jul-04	29.1	5.5	0/0	--	0.03	
	30-Sep-04	29.2	19.3	0/0	--	0.03	
LF08-MP010 --22 ft North	15-Jul-03	29.1	0.2	33.2/>100	32.6/>100	0.03	
	23-Sep-03	29.2	0.8	36.5/>100	36.5/>100	0.03	
	20-Feb-04	28.5	0.6	38.9/776	38.7/772	0.03	
	07-Apr-04	28.9	2.2	40.5/>100	40.4/>100	0.03	
	27-Jul-04	29.1	0.5	42.3/>100	40.9/>100	0.03	
	30-Sep-04	29.2	2.0	43.7/>100	39.8/>100	0.03	

**Table 2-13**  
**Landfill 8 Landfill Gas Monitoring**  
**Field Measurements**  
**Wright-Patterson AFB, Ohio**  
**Page 2 of 2**

Location --Dist./Dir. From Nearest Structure	Date Monitored	Probe Press. (2) (in. of Hg)	Probe Oxygen (%)	(% Methane / % LEL)		Methane TLV (%) (5)	Comments
				Initial (3)	Sustained (4)		
LF08-MP011 --17 ft North	15-Jul-03	29.1	16	0/0	--	0.02	Water in vault, leaky valve
	23-Sep-03	29.2	9.8	0/0	--	0.02	
	20-Feb-04	28.5	19.4	0/0	--	0.02	
	07-Apr-04	28.9	7.4	0/0	--	0.02	
	27-Jul-04	29.1	9.8	0/0	--	0.02	
	30-Sep-04	29.2	8.9	0/0	--	0.02	
LF08-MP012 --13 ft North	15-Jul-03	29.1	19.8	0/0	--	0.02	
	23-Sep-03	29.2	0.0	1.2/0	--	0.02	
	20-Feb-04	28.5	1.6	0.5/10	0.5/10	0.02	
	07-Apr-04	28.9	19.7	0/0	--	0.02	
	27-Jul-04	29.1	1.4	0/0	--	0.02	
	30-Sep-04	29.2	19.3	0/0	--	0.02	
LF08-MP013 --20 ft South	15-Jul-03	29.1	19.9	0/0	--	0.03	
	23-Sep-03	29.2	19.5	0/0	--	0.03	
	20-Feb-04	28.5	19.0	0/0	--	0.03	
	07-Apr-04	28.9	19.8	0/0	--	0.03	
	27-Jul-04	29.1	14.1	0/0	--	0.03	
	30-Sep-04	29.2	19.3	0/0	--	0.03	
LF08-MW05C --25 ft West	15-Jul-03	29.1	19.8	0/0	--	0.03	
	23-Sep-03	Readings not collected		--	--	0.03	
	20-Feb-04	28.6	20.2	0/0	--	0.03	
	07-Apr-04	28.9	20.0	0/0	--	0.03	
	27-Jul-04	29.1	19.5	0/0	--	0.03	
	30-Sep-04	29.2	19.3	0/0	--	0.03	
<u>Punchbars</u> LF08-PT003 --12 ft North	15-Jul-03	ATMP	19.8	0/0	--	0.02	Taken outside of fence due to construction
	23-Sep-03	ATMP	14.4	0/0	--	0.02	
	20-Feb-04	ATMP	18.5	0/0	--	0.02	
	07-Apr-04	ATMP	19.8	0/0	--	0.02	
	26-Jul-04	ATMP	19.3	0/0	--	0.02	
	30-Sep-04	ATMP	19.2	0/0	--	0.02	
LF08-PT10A --12 ft North	15-Jul-03	ATMP	19.9	0/0	--	0.02	
	23-Sep-03	ATMP	19.3	0/0	--	0.02	
	20-Feb-04	ATMP	18.7	0/0	--	0.02	
	07-Apr-04	ATMP	20.1	0/0	--	0.02	
	27-Jul-04	ATMP	19.5	0/0	--	0.02	
	30-Sep-04	ATMP	19.3	0/0	--	0.02	
LF08-PT10B --5 ft East	15-Jul-03	ATMP	19.8	0/0	--	0.01	
	23-Sep-03	ATMP	18.0	0/0	--	0.01	
	20-Feb-04	ATMP	20.1	0/0	--	0.02	
	07-Apr-04	ATMP	20.1	0/0	--	0.02	
	27-Jul-04	ATMP	19.5	0/0	--	0.02	
	30-Sep-04	ATMP	19.3	0/0	--	0.02	
LF08-PT10C --5 ft North	15-Jul-03	ATMP	19.9	0/0	--	0.01	
	23-Sep-03	ATMP	18.3	0/0	--	0.01	
	20-Feb-04	ATMP	19.9	0/0	--	0.02	
	07-Apr-04	ATMP	20.1	0/0	--	0.02	
	27-Jul-04	ATMP	19.1	0/0	--	0.02	
	30-Sep-04	ATMP	19.3	0/0	--	0.02	

**Notes:**

- Abbreviations: in. = inches; ft.bgs = feet below ground surface; Hg = Mercury; TLV = percent combustible gas by volume (see Note 5); NA = not applicable  
ATMP = atmospheric pressure (open bore hole);  
NT = Not Taken, monitoring probe was not disassembled prior to sustained reading; GBT = Gas barrier trench, N = North, S = South
- Pressure readings taken via pressure valve in unvented cap at top of probe.
- Initial gas concentrations reading taken after purging probe a minimum of 30 seconds.
- Sustained combustible gas concentration reading taken approximately one half hour after removing unvented lid from monitoring probe.  
This reading is only taken if methane and LEL were detected in the initial reading.
- Methane TLV was calculated using the formula  $T = (0.00125)(H)$ , where T = threshold limit value, H = horizontal distance in feet between probe and closest occupied structure.

**Table 2-14**  
**Landfill 10 Landfill Gas Monitoring**  
**Field Measurements**  
**Wright-Patterson AFB, Ohio**  
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WPAFB  
Final  
LTM Report: October 2004  
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September 2, 2005

Location -Dist./Dir. From Nearest Structure	Date Monitored	Probe Press. (2) (in. of Hg)	Probe Oxygen (%)	(% Methane / % LEL)		Methane TLV (%) (5)	Comments
Monitor Points							
LF10-MP014 -30 ft Northwest	15-Jul-03	29.1	19.6	0/0	--	0.04	
	23-Sep-03	29.2	10.2	0/0	--	0.04	
	20-Feb-04	28.6	19.9	0/0	--	0.04	
	07-Apr-04	28.9	19.8	0/0	--	0.04	
	27-Jul-04	29.1	11.4	0/0	--	0.04	
	30-Sep-04	29.2	12.6	0/0	--	0.04	
LF10-MP016 -87 ft Southeast	15-Jul-03	29.2	19.5	0/0	--	0.11	
	23-Sep-03	29.2	4.7	0/0	--	0.11	
	20-Feb-04	28.6	3.8	0/0	--	0.11	
	07-Apr-04	28.9	19.7	0/0	--	0.11	
	27-Jul-04	29.1	5.4	0/0	--	0.11	
	30-Sep-04	29.2	6.0	0/0	--	0.11	
LF10-MP018 -61 ft North	15-Jul-03	29	7.0	0/0	--	0.08	
	23-Sep-03	29.2	13.3	0/0	--	0.08	
	20-Feb-04	28.7	11.1	0/0	--	0.08	
	07-Apr-04	28.9	18.0	0/0	--	0.08	
	27-Jul-04	29.1	12.7	0/0	--	0.08	
	30-Sep-04	29.2	13.8	0/0	--	0.08	
LF10-MP019 -25 ft West	15-Jul-03	29.1	11.2	0/0	--	0.03	
	23-Sep-03	29.2	0.3	0/0	--	0.03	
	20-Feb-04	28.6	1.1	0/0	--	0.03	
	07-Apr-04	28.9	10.4	0/0	--	0.03	
	27-Jul-04	29.1	2.9	0/0	--	0.03	
	30-Sep-04	29.2	6.3	0/0	--	0.03	
LF10-MP020 -18 ft East	15-Jul-03	29.1	15.3	0/0	--	0.02	
	23-Sep-03	29.2	5.0	0/0	--	0.02	
	20-Feb-04	28.6	2.7	0/0	--	0.02	
	07-Apr-04	28.9	0.7	0/0	--	0.02	
	27-Jul-04	29.1	6.8	0/0	--	0.02	
	30-Sep-04	29.2	6.7	0/0	--	0.02	
LF10-MP021 -17 ft East	15-Jul-03	29.1	19.8	0/0	--	0.02	
	23-Sep-03	29.2	20.1	0/0	--	0.02	
	20-Feb-04	28.7	18.6	0/0	--	0.02	
	07-Apr-04	28.9	19.2	0/0	--	0.02	
	27-Jul-04	29.1	17.8	0/0	--	0.02	
	30-Sep-04	29.2	19.0	0/0	--	0.02	
LF10-MP023 -15 ft Southeast	15-Jul-03	29.1	19.2	0/0	--	0.02	
	23-Sep-03	29.2	20.1	0/0	--	0.02	
	20-Feb-04	28.7	18.6	0/0	--	0.02	
	07-Apr-04	28.9	18.5	0/0	--	0.02	
	27-Jul-04	29.1	18.4	0/0	--	0.02	
	30-Sep-04	29.2	16.9	0/0	--	0.02	
LF10-MP026 -18 ft East	15-Jul-03	29.1	18.9	0/0	--	0.02	
	23-Sep-03	29.2	20.2	0/0	--	0.02	
	20-Feb-04	28.7	13.5	0/0	--	0.02	
	07-Apr-04	28.9	18.6	0/0	--	0.02	
	27-Jul-04	29.1	19.5	0/0	--	0.02	
	30-Sep-04	29.2	18.4	0/0	--	0.02	

**Table 2-14**  
**Landfill 10 Landfill Gas Monitoring**  
**Field Measurements**  
**Wright-Patterson AFB, Ohio**  
**Page 2 of 3**

Location --Dist./Dir. From Nearest Structure	Date Monitored	Probe Press. (2) (in. of Hg)	Probe Oxygen (%)	(% Methane / % LEL)		Methane TLV (%) (5)	Comments
				Initial (3)	Sustained (4)		
<b>Punchbars</b>							
LF10-PT030 -70 ft East	15-Jul-03	ATMP	19.9	0/0	--	0.09	
	23-Sep-03	ATMP	19.6	0/0	--	0.09	
	20-Feb-04	ATMP	19.8	0/0	--	0.09	
	07-Apr-04	ATMP	19.8	0/0	--	0.09	
	26-Jul-04	ATMP	19.4	0/0	--	0.09	
	30-Sep-04	ATMP	19.3	0/0	--	0.09	
LF10-PT031 -70 ft East	15-Jul-03	ATMP	19.8	0/0	--	0.09	
	23-Sep-03	ATMP	17.2	0/0	--	0.09	
	20-Feb-04	ATMP	19.8	0/0	--	0.09	
	07-Apr-04	ATMP	20.0	0/0	--	0.09	
	26-Jul-04	ATMP	19.2	0/0	--	0.09	
	30-Sep-04	ATMP	19.2	0/0	--	0.09	
LF10-PT035 -66 ft East	15-Jul-03	ATMP	19.8	0/0	--	0.08	
	23-Sep-03	ATMP	16.0	0/0	--	0.08	
	20-Feb-04	ATMP	19.2	0/0	--	0.08	
	07-Apr-04	ATMP	16.3	0/0	--	0.08	
	26-Jul-04	ATMP	19.3	0/0	--	0.08	
	30-Sep-04	ATMP	19.1	0/0	--	0.08	
LF10-PT036 -69 ft East	15-Jul-03	ATMP	19.9	0/0	--	0.09	
	23-Sep-03	ATMP	17.0	0/0	--	0.09	
	20-Feb-04	ATMP	18.8	0/0	--	0.09	
	07-Apr-04	ATMP	19.9	0/0	--	0.09	
	26-Jul-04	ATMP	19.2	0/0	--	0.09	
	30-Sep-04	ATMP	19.3	0/0	--	0.09	
LF10-PT060 -65 ft East	15-Jul-03	ATMP	19.9	0/0	--	0.08	
	23-Sep-03	ATMP	19.2	0/0	--	0.08	
	20-Feb-04	ATMP	19.5	0/0	--	0.08	
	07-Apr-04	ATMP	19.8	0/0	--	0.08	
	26-Jul-04	ATMP	19.3	0/0	--	0.08	
	30-Sep-04	ATMP	18.6	0/0	--	0.08	
LF10-PT065 -69 ft East	15-Jul-03	ATMP	19.8	0/0	--	0.09	
	23-Sep-03	ATMP	19.3	0/0	--	0.09	
	20-Feb-04	ATMP	19.7	0/0	--	0.09	
	07-Apr-04	ATMP	18.9	0/0	--	0.09	
	26-Jul-04	ATMP	19.2	0/0	--	0.09	
	30-Sep-04	ATMP	18.4	0/0	--	0.09	
LF10-PT078 -39 ft Northeast	15-Jul-03	ATMP	19.9	0/0	--	0.05	
	23-Sep-03	ATMP	17.3	0/0	--	0.05	
	20-Feb-04	ATMP	20.2	0/0	--	0.05	
	07-Apr-04	ATMP	19.8	0/0	--	0.05	
	26-Jul-04	ATMP	19.1	0/0	--	0.05	
	30-Sep-04	ATMP	19.3	0/0	--	0.05	
LF10-PT085 -60 ft Southwest	15-Jul-03	ATMP	19.9	0/0	--	0.08	
	23-Sep-03	ATMP	19.5	0/0	--	0.08	
	20-Feb-04	ATMP	20.3	0/0	--	0.08	
	07-Apr-04	ATMP	19.8	0/0	--	0.08	
	26-Jul-04	ATMP	19.3	0/0	--	0.08	
	30-Sep-04	ATMP	19.3	0/0	--	0.08	



**Table 2-14**  
**Landfill 10 Landfill Gas Monitoring**  
**Field Measurements**  
**Wright-Patterson AFB, Ohio**  
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WPAFB  
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September 2, 2005

Location --Dist./Dir. From Nearest Structure	Date Monitored	Probe Press. (2) (in. of Hg)	Probe Oxygen (%)	(% Methane / % LEL)		Methane TLV (%) (5)	Comments
				Initial (3)	Sustained (4)		
LF10-PT088 -14 ft Northeast	15-Jul-03	ATMP	19.8	0/0	--	0.02	
	23-Sep-03	ATMP	19.4	0/0	--	0.02	
	20-Feb-04	ATMP	20.2	0/0	--	0.02	
	07-Apr-04	ATMP	18.8	0/0	--	0.02	
	26-Jul-04	ATMP	19.2	0/0	--	0.02	
	30-Sep-04	ATMP	19.3	0/0	--	0.02	
LF10-PT090 -196 ft Southeast	15-Jul-03	ATMP	19.8	0/0	--	0.24	
	23-Sep-03	ATMP	19.2	0/0	--	0.24	
	20-Feb-04	ATMP	20.0	0/0	--	0.24	
	07-Apr-04	ATMP	18.8	0/0	--	0.24	
	26-Jul-04	ATMP	19.1	0/0	--	0.24	
	30-Sep-04	ATMP	19.2	0/0	--	0.24	
LF10-PT091 -225 ft Southeast	15-Jul-03	ATMP	19.9	0/0	--	0.28	
	23-Sep-03	ATMP	17.5	0/0	--	0.28	
	20-Feb-04	ATMP	19.3	0/0	--	0.28	
	07-Apr-04	ATMP	19.8	0/0	--	0.28	
	26-Jul-04	ATMP	19.2	0/0	--	0.28	
	30-Sep-04	ATMP	19.3	0/0	--	0.28	
LF10-PT093 -225 ft Southeast	15-Jul-03	ATMP	19.8	0/0	--	0.28	
	23-Sep-03	ATMP	17.3	0/0	--	0.28	
	20-Feb-04	ATMP	19.3	0/0	--	0.28	
	07-Apr-04	ATMP	20.1	0/0	--	0.28	
	26-Jul-04	ATMP	19.3	0/0	--	0.28	
	30-Sep-04	ATMP	19.3	0/0	--	0.28	
LF10-PT095 -300 ft North	15-Jul-03	ATMP	19.9	0/0	--	0.38	
	23-Sep-03	ATMP	17.5	0/0	--	0.38	
	20-Feb-04	ATMP	17.8	0/0	--	0.38	
	07-Apr-04	ATMP	20.1	0/0	--	0.38	
	26-Jul-04	ATMP	19.2	0/0	--	0.38	
	30-Sep-04	ATMP	18.5	0/0	--	0.38	
LF10-PT100 -350 ft Southeast	15-Jul-03	ATMP	19.8	0/0	--	0.44	
	23-Sep-03	ATMP	17.5	0/0	--	0.44	
	20-Feb-04	ATMP	20.2	0/0	--	0.44	
	07-Apr-04	ATMP	19.8	0/0	--	0.44	
	26-Jul-04	ATMP	19.3	0/0	--	0.44	
	30-Sep-04	ATMP	19.1	0/0	--	0.44	
LF10-GBT0S -75 ft Southeast	15-Jul-03	ATMP	19.9	0/0	--	0.09	Sample valve not removed to vent
	23-Sep-03	ATMP	20.1	0/0	--	0.09	
	20-Feb-04	ATMP	3.6	5.6/112	6.2/124	0.09	
	07-Apr-04	ATMP	5.6	6.7/>100	0.0/0.0	0.09	
	27-Jul-04	ATMP	5.9	1.8/34	NT	0.09	
	30-Sep-04	ATMP	0.0	34.8/>100	NT	0.09	
LF10-GBT0N -39 ft East	15-Jul-03	Mower damage			--	0.05	
	23-Sep-03	Location not found, possibly backfilled			--	0.05	
	20-Feb-04	Location not found, possibly backfilled			--	0.05	
	07-Apr-04	Submerged in water due to construction operations				0.05	
	27-Jul-04	ATMP	15.6	5.5/>100	NT	0.05	
	30-Sep-04	ATMP	18.1	0/0	--	0.05	

**Notes:**

- Abbreviations: in. = inches; ft.bgs = feet below ground surface; Hg = Mercury; TLV = percent combustible gas by volume (see Note 5); NA = not applicable.  
ATMP = atmospheric pressure (open bore hole);  
NT = Not Taken, monitoring probe was not disassembled prior to sustained reading; GBT = Gas barrier trench, N = North, S = South
- Pressure readings taken via pressure valve in unvented cap at top of probe.
- Initial gas concentrations reading taken after purging probe a minimum of 30 seconds.
- Sustained combustible gas concentration reading taken approximately one half hour after removing unvented lid from monitoring probe.  
This reading is only taken if methane and LEL were detected in the initial reading.
- Methane TLV was calculated using the formula  $T = (0.00125)(H)$ , where T = threshold limit value, H = horizontal distance in feet between probe and closest occupied structure.

**Table 2-15**  
**Landfill 8 Groundwater Levels: July and September 2004**  
**Wright-Patterson AFB, Ohio**  
**Page 1 of 2**

Well No.	Northing	Easting	Ref. Point Elevation (ft)	Screened Interval (ft, bgs)	Well Depth (ft, bgs)	7/28/2004 GW Depth (ft, TOC)	7/28/2004 GW Elevation (ft, MSL)	7/28/2004 QED Readings	9/29/2004 GW Depth (ft, TOC)	9/29/2004 GW Elevation (ft, MSL)	9/29/2004 QED Readings
EW-0801	654353.02	1557135.17	937.59	0.5-55.5	55.5	BTP	BTP	529727	49.56	888.03	548394
EW-0803	654397.11	1557201.56	936.73	5.0-55.5	55.5	50.12	886.61	274805	49.58	887.15	286056
EW-0805	654489.76	1557207.60	938.54	5.5-55.5	55.5	49.90	888.64	179241	50.33	888.21	183153
EW-0807	654743.32	1557303.97	934.98	0.5-51.5	51.5	41.52	893.46	209892	41.63	893.35	218062
EW-0810	654948.23	1557341.67	931.04	5.0-55.5	55.0	48.78	882.26	863412	48.78	882.26	922039
EW-0812	655118.39	1557359.59	926.88	5.0-50	50.0	23.85	903.03	550311	23.85	903.03	698519
EW-0816	655232.42	1557225.01	932.99	5.0-55.0	55.0	26.69	906.30	560896	54.15	878.84	639500
02-003-M	655195.68	1557599.06	850.24	24.0-44.0	44.0	3.08	847.16	-	4.25	845.99	-
02-DM-81D-M	654372.65	1556701.67	949.67	48.5-53.5	94.4	28.19	921.48	-	29.65	920.02	-
02-DM-81S-M	654367.84	1556705.76	949.75	31.3-36.3	36.3	23.18	926.57	-	27.01	922.74	-
02-DM-82S-M	655031.69	1557606.43	893.37	59.5-64.5	64.5	10.79	882.58	-	12.07	881.30	-
02-DM-83D-M	655330.68	1557334.47	912.56	37.1-47.1	72.7	NT	NT	-	15.12	897.44	-
02-DM-83S-M	655335.36	1557328.28	913.32	12.0-17.0	17.0	16.31	897.01	-	18.05	895.27	-
02-DM-84-M	654725.79	1557463.27	914.49	52.8-57.8	57.8	19.85	894.64	-	20.45	894.04	-
02-DM-85-M	654423.84	1557385.79	894.81	47.5-52.5	52.5	4.54	890.27	-	5.12	889.69	-
LF08-MW01A	654132.39	1557154.35	905.69	23.8-29.4	42.2	9.13	896.56	-	6.31	899.38	-
LF08-MW01C	654123.81	1557144.25	905.92	7.2-15.0	17.0	5.90	900.02	-	9.41	896.51	-
LF08-MW02A	654418.18	1557374.09	894.07	43.7-53.7	56.0	5.09	888.98	-	4.90	889.17	-
LF08-MW02C	654446.85	1557382.85	895.61	11.7-21.7	24.0	12.95	882.66	-	13.35	882.26	-
LF08-MW03A	656331.63	1557401.92	888.38	22.7-27.7	42.0	16.68	871.70	-	16.20	872.18	-
LF08-MW03C	656340.94	1557399.60	888.08	8.7-13.7	15.5	9.34	878.74	-	7.99	880.09	-
LF08-MW04A	654838.64	1557618.29	913.45	51.3-63.0	68.0	30.20	883.25	-	31.40	882.05	-
LF08-MW04B	654829.68	1557624.11	912.76	29.5-37.0	39.0	21.81	890.95	-	24.51	888.25	-
LF08-MW04C	654829.72	1557613.08	914.02	21.0-26.0	28.0	19.99	894.03	-	22.50	891.52	-
LF08-MW05A	654691.07	1556722.51	949.38	59.8-69.8	88.0	29.88	919.50	-	31.04	918.34	-
LF08-MW05B	654680.84	1556732.28	949.17	41.7-51.7	53.8	19.29	929.88	-	24.00	925.17	-
LF08-MW05C	654689.63	1556732.16	949.30	17.75-27.75	30.0	16.25	933.05	-	16.38	932.92	-
LF08-MW06A	655113.55	1557659.08	891.30	53.5-73.8	80.0	27.28	864.02	-	27.97	863.33	-
LF08-MW06B	655107.64	1557653.36	890.63	32.75-42.75	45.0	11.23	879.40	-	12.49	878.14	-

**Table 2-15**  
**Landfill 8 Groundwater Levels: July and September 2004**  
**Wright-Patterson AFB, Ohio**  
**Page 2 of 2**

Well No.	Northing	Easting	Ref. Point Elevation (ft)	Screened Interval (ft, bgs)	Well Depth (ft, bgs)	7/28/2004 GW Depth (ft, TOC)	7/28/2004 GW Elevation (ft, MSL)	7/28/2004 QED Readings	9/29/2004 GW Depth (ft, TOC)	9/29/2004 GW Elevation (ft, MSL)	9/29/2004 QED Readings
LF08-MW06C	655113.21	1557649.54	891.72	7.0-12.0	NA	DRY	DRY	-	DRY	DRY	-
LF08-MW07A	654823.76	1556514.50	952.62	43.7-53.7	64.0	20.99	931.63	-	22.82	929.80	-
LF08-MW07B	654828.84	1556522.83	952.56	33.0-38.0	40.0	21.90	930.66	-	23.59	928.97	-
LF08-MW07C	654820.00	1556522.84	952.79	24.0-29.0	31.0	21.72	931.07	-	23.56	929.23	-
LF08-MW08A	655232.00	1557715.00	878.70	16.7-32.0	36.0	3.64	875.06	-	4.82	873.88	-
LF08-MW08B	655239.55	1557719.53	878.63	16.67-22.0	24.0	3.70	874.93	-	4.79	873.84	-
LF08-MW08C	655231.55	1557721.65	877.72	6.67-11.67	14.0	8.88	868.84	-	9.57	868.15	-
LF08-MW09A	655488.16	1557938.20	855.38	25.2-30.2	32.5	13.73	841.65	-	13.99	841.39	-
LF08-MW09B	655482.68	1557938.41	856.01	13.67-18.67	20.5	12.97	843.04	-	13.21	842.80	-
LF08-MW10A	655375.00	1557511.15	911.86	53.7-63.8	66.00	23.97	887.89	-	25.11	886.75	-
LF08-MW10B	655386.20	1557506.18	912.27	29.8-34.8	39.0	21.29	890.98	-	22.55	889.72	-
LF08-MW10C	655385.42	1557520.23	911.83	17.5-22.5	25.0	DRY	DRY	-	BTP	BTP	-
LF08-MW11A	655424.57	1556948.45	934.37	49.8-54.8	57.0	11.25	923.12	-	12.41	921.96	-
LF08-MW11B	655430.98	1556930.30	934.95	31.75-42.0	44.3	10.26	924.69	-	11.74	923.21	-
LF08-MW11C	655417.40	1556933.44	935.18	12.25-22.5	23.9	9.31	925.87	-	10.85	924.33	-
LF08-MW12B	655539.63	1556787.87	936.03	26.2-33.5	35.8	10.91	925.12	-	12.41	923.62	-
LF08-MW12C	655555.19	1556783.70	936.16	6.2-11.2	13.5	11.06	925.10	-	12.56	923.60	-
LF08-MW13A	655659.27	1556720.56	934.01	76.2-86.2	88.5	12.89	921.12	-	13.97	920.04	-
LF08-MW13B	655667.30	1556706.41	933.22	18.5-28.5	30.9	9.80	923.42	-	11.46	921.76	-
LF08-MW13C	655673.31	1556728.07	933.48	7.2-17.2	19.7	10.30	923.18	-	11.98	921.50	-
LF08-MW14B	655433.83	1556557.46	942.45	24.4-28.9	38.0	11.80	930.65	-	13.00	929.45	-
LF08-MW14C	655452.02	1556567.21	941.75	7.0-17.0	21.2	10.68	931.07	-	11.76	929.99	-
LF08-MW101	655115.53	1557381.88	918.41	58.0-68.0	68.0	30.69	887.72	-	31.90	886.51	-
LF08-MW102	654754.18	1557350.72	930.77	63.0-73.0	73.0	36.11	894.66	-	36.97	893.80	-
LF08-MW103	654374.39	1557241.86	927.42	58.0-68.0	68.0	35.50	891.92	-	36.04	891.38	-

NT - Not taken  
NA - Information Not Available  
TOC - Top of Casing  
ft - feet  
bgs - below ground surface  
BTP - Below top of pump  
Survey data in boxes is from the Reinke and Associates (Surveyors) survey February 28, 2000.  
^ - EW-0805 coordinates from Reinke and Associates "as built" landfill drawings.

Table 2-16  
Landfill 10 Groundwater Levels: July and September 2004  
Wright-Patterson AFB, Ohio  
Page 1 of 2

Well No.	Ref. Point Elevation (ft)	Screened Interval (ft, bgs)	Well Depth (ft, bgs)	7/29/2004 GW Depth (ft, TOC)	7/29/2004 GW Elevation (ft, MSL)	7/29/2004 QED Readings	9/29/2004 GW Depth (ft, TOC)	9/29/2004 GW Elevation (ft, MSL)	9/29/2004 QED Readings
EW-1001	908.28	3.0-53.0	53.0	50.07	858.21	516025	36.40	871.88	561103
EW-1002*	921.32	3.0-53.0	53.0	44.20	877.12	011392	52.08	869.24	000399
EW-1003*	915.68	6.0-66.0	66.0	18.23	897.45	156230	19.80	895.88	156746
EW-1004	923.08	5.0-63.0	63.0	57.55	865.53	010707	57.45	865.63	010828
EW-1006*	915.24	5.0-38.0	38.0	30.02	885.22	015051	30.74	884.50	015190
EW-1008	911.16	6.0-36.0	36.0	39.10	872.06	000934	DRY	DRY	000935
EW-1011	909.31	6.0-66.0	66.0	56.98	852.33	005608	58.47	850.84	006120
EW-1012	891.43	5.0-30.0	35.0	29.70	861.73	147867	28.92	862.51	147867
EW-1013	886.21	5.0-30.0	35.0	30.79	855.42	014474	31.90	854.31	015326
EW-1014	884.90	5.0-30.0	30.0	32.91	851.99	000064	33.84	851.06	000066
EW-1015	907.94	5.0-62.0	62.0	49.61	858.33	006172	48.49	859.45	006393
EW-1016	907.41	5.5-50.5	50.5	42.85	864.56	072003	51.06	856.35	072121
EW-1017*	901.79	3.0-48.0	48.0	46.33	855.46	0001566	47.42	854.37	001566
EW-1018	901.77	2.0-37.0	37.0	28.40	873.37	009048	28.77	873.00	009048
EW-1019	884.74	2.0-52.0	52.0	33.87	850.87	998003	44.27	840.47	046755
EW-1020	868.18	5.0-35.0	35.0	BTP	BTP	027751	33.68	834.5	027754
EW-1022	870.55	5.0-65.0	65.0	39.72	830.83	245981	61.08	809.47	257741
EW-1024	891.25	6.0-41.0	41.0	40.03	851.22	321629	39.29	851.96	337741
EW-1025	877.61	3.0-43.0	43.0	37.29	840.32	048337	37.62	839.99	054201
EW-1026*	861.26	6.0-85.0	85.0	83.92	777.34	992786	84.05	777.21	038448
LF10-MW01A	918.50	87.0-92.0	106.0	74.95	843.55	-	74.93	843.57	-
LF10-MW01B	918.52	27.0-37.0	40.0	22.84	895.68	-	24.47	894.05	-
LF10-MW01C	918.57	6.0-11.0	14.0	13.61	904.96	-	14.42	904.15	-
LF10-MW03A	907.49	86.0-91.0	93.0	89.68	817.81	-	89.72	817.77	-
LF10-MW04B	898.86	113.7-123.7	126.0	98.48	800.38	-	98.99	799.87	-
LF10-MW05B	858.44	27.0-34.2	37.0	19.22	839.22	-	19.42	839.02	-
LF10-MW05C	859.06	3.42-8.42	11.0	10.24	848.82	-	BTP	-	-
LF10-MW06A	894.62	74.8-84.8	87.1	71.95	822.67	-	72.02	822.60	-
LF10-MW06ADUPA	894.78	55.0-65.0	66.0	66.86	827.92	-	66.84	827.94	-
LF10-MW06B	894.09	37.15-42.50	44.0	34.06	860.03	-	34.45	859.64	-
LF10-MW07A	897.54	64.0-69.0	82.0	50.65	846.89	-	51.07	846.47	-
LF10-MW07B	897.01	19.3-24.3	36.0	27.51	869.50	-	28.81	868.20	-

Table 2-16  
Landfill 10 Groundwater Levels: July and September 2004  
Wright-Patterson AFB, Ohio  
Page 2 of 2

Well No.	Ref. Point Elevation (ft)	Screened Interval (ft, bgs)	Well Depth (ft, bgs)	7/29/2004 GW Depth (ft, TOC)	7/29/2004 GW Elevation (ft, MSL)	7/29/2004 QED Readings	9/29/2004 GW Depth (ft, TOC)	9/29/2004 GW Elevation (ft, MSL)	9/29/2004 QED Readings
LF10-MW07C	897.72	9.33-14.33	18.0	11.69	886.03	--	14.26	883.46	--
LF10-MW08A-2	863.35	79.9-89.9	92.2	66.79	796.56	--	67.55	795.80	--
LF10-MW08B	865.09	11.5-16.5	18.7	11.29	853.80	--	NA	NA	--
LF10-MW09A	877.98	77.0-87.0	88.0	51.05	826.93	--	51.61	826.37	--
LF10-MW09B	878.21	46.4-57.0	61.0	50.60	827.61	--	50.99	827.22	--
LF10-MW09C	878.17	31.05-41.10	45.0	34.35	843.82	--	35.18	842.99	--
LF10-MW10B	844.40	13.75-23.75	26.0	DRY	DRY	--	DRY	DRY	--
LF10-MW10C	844.19	56.0-66.0	68.0	47.85	796.34	--	48.76	795.43	--
LF10-MW11A	854.20	61.7-71.7	74.0	29.96	824.24	--	30.39	823.81	--
LF10-MW11B	854.52	30.2-40.2	43.0	28.15	826.37	--	28.44	826.08	--
LF10-MW13A	845.53	34.65-44.65	52.0	21.40	824.13	--	21.86	823.67	--
LF10-MW13C	845.64	17.0-27.0	40.0	20.75	824.89	--	21.16	824.48	--
LF10-MW14A	948.58	83.1-98.7	101.0	73.31	875.27	--	73.47	875.11	--
LF10-MW102	891.25	55.0-65.0	65.0	DRY	DRY	--	DRY	DRY	--
LF10-MW103	909.65	32.0-42.0	42.0	32.13	877.52	--	32.10	877.55	--
LF10-MW104	909.40	72.0-82.0	82.0	73.10	836.30	--	69.37	840.03	--
LF10-MW105	873.24	53.0-63.0	65.0	45.34	827.90	--	46.06	827.18	--
01-DM-101S-M	914.95	41.8-51.8	51.8	36.80	878.15	--	37.13	877.82	--
01-DM-101D-M	914.54	78.8-83.8	85.0	86.10	828.44	--	DRY	DRY	--
01-DM-102S-M	844.88	17.9-22.9	98.0	25.90	818.98	--	25.41	819.47	--
01-DM-102D-M	844.27	51.5-56.5	98.0	47.94	796.33	--	48.88	795.39	--
01-004-M	880.58	33.0-63.0	63.0	36.30	844.28	--	37.18	843.40	--
01-005-M	839.72	36.0-46.0	46.0	9.10	830.62	--	9.85	829.87	--

NT - Not taken

NA - Information Not Available

TOC - Top of Casing

ft - feet

bgs - below ground surface

BTP - Below top of pump

^ - LF10-MW06ADUP is a separate well from LF10-MW06A

Survey data in boxes is from the Reinke and Associates (Surveyors) survey February 28, 2000.

Note: During the July 2004 event, water levels were collected at the extraction wells on July 28 and water levels were collected at the monitoring wells on July 29, 2004.

**Table 2-17**  
**Landfill 10 Landfill Bottom Elevations**  
**Wright-Patterson AFB, Ohio**

Well No.	Easting (ft.)	Northing (ft.)	Total Depth <sup>(a)</sup> (ft)	Top of Casing Elevation	Bottom of Landfill (ft)	Bottom of LF Elev. (ft, MSL)	Bottom of Pump Depth (ft)	Bottom of Pump Elev. (ft, MSL)
EW-1001	1558373	655167	57.5	908.28	13.50	894.78	53.00	855.28
EW-1002	1558408	655241	57.0	921.32	25.00	896.32	54.50	866.82
EW-1003	1558528	655193	65.2	915.68	36.00	879.68	56.40	859.28
EW-1004	1558489	655275	64.7	923.08	27.00	896.08	60.50	862.58
EW-1006	1558419	655401	40.2	915.24	28.00	887.24	32.60	882.64
EW-1008	1558315	655424	38.9	911.16	19.00	892.16	37.00	874.16
EW-1011	1558561	655724	64.5	909.31	30.00	879.31	62.20	847.11
EW-1012	1558469	655798	35.2	891.43	10.00	881.43	34.10	857.33
EW-1013	1558477	655886	34.9	886.21	7.00	879.21	34.00	852.21
EW-1014	1558518	655958	35.1	884.90	7.00	877.90	33.90	851.00
EW-1015	1558681	655792	59.6	907.94	26.00	881.94	52.10	855.84
EW-1016	1558686	655879	56.0	907.41	32.00	875.41	54.00	853.41
EW-1017	1558732	655979	49.0	901.79	22.00	879.79	48.50	853.29
EW-1018	1558630	655969	40.2	901.77	22.00	879.77	34.00	867.77
EW-1019	1558588	656093	47.2	884.74	2.00	882.74	47.00	837.74
EW-1020	1558723	656335	36.2	868.18	15.00	853.18	35.60	832.58
EW-1022	1558803	656372	68.9	870.55	22.00	848.55	63.90	806.65
EW-1024	1558794	656041	44.4	891.25	15.00	876.25	42.40	848.85
EW-1025	1558824	656301	47.2	877.61	18.00	859.61	44.60	833.01
EW-1026	1558884	656379	88.9	861.26	16.00	845.26	86.40	774.86

Note: Survey completed by Reinke Associates for Kelchener Environmental, February 1996

<sup>(a)</sup> - Actual well depth as measured by TetraTech, Inc., March 2003.

Inlets for extraction well pumps are at bottom.

Table 3-1  
OU5 Monthly Water Levels  
Wright-Patterson AFB, Ohio  
Page 1 of 2

Well No.	Screened Interval (ft. bgs)	Ref. Point Elevation (ft. MSL)	5/27/2004 Depth to Water (ft. TOC)	5/27/2004 Water Level Elev (ft. MSL)	6/29/2004 Depth to Water (ft. TOC)	6/29/2004 Water Level Elev (ft. MSL)	7/29/2004 Depth to Water (ft. TOC)	7/29/2004 Water Level Elev (ft. MSL)
08-020-M	11 - 21	790.71	LL	LL	18.28	772.43	19.44	771.27
08-021-M	13 - 23	790.38	LL	LL	18.70	771.68	19.92	770.46
08-022-M	26 - 36	795.63	LL	LL	21.69	773.94	22.82	772.81
08-023-M	24 - 34	791.38	LL	LL	10.40	780.98	10.78	780.60
08-523-M	5.5 - 15.5	789.86	LL	LL	Dry	—	Dry	—
08-524-M	5.4 - 15.4	789.61	LL	LL	11.22	778.39	12.00	777.61
08-525-M	6.0 - 16	791.51	LL	LL	15.44	776.07	16.27	775.24
08-526-M	6.4 - 16.4	790.53	LL	LL	Dry	—	Dry	—
08-527-M	6.0 - 16	788.60	LL	LL	Dry	—	Dry	—
08-528-M	7.5 - 17.5	790.04	LL	LL	18.09	771.95	Dry	—
CW04-060	49.7 - 59.7	791.76	LL	LL	20.15	771.61	21.45	770.31
CW05-055	45 - 55	793.19	LL	LL	21.77	771.42	22.90	770.29
CW05-085	75 - 85	793.53	LL	LL	22.65	770.88	Baby Birds	—
CW06-077	67 - 77	792.92	LL	LL	20.42	772.50		771.37
CW07-055	44.5 - 54.5	794.43	LL	LL	18.49	775.94	19.11	775.32
CW07-100	90 - 100	792.34	LL	LL	14.01	778.33	14.16	778.18
CW08-017	6.8 - 16.8	792.32	LL	LL	15.83	776.49	16.70	775.62
CW08-055	44.7 - 54.7	792.06	LL	LL	13.67	778.39	13.87	778.19
CW08-110	100 - 110	790.95	LL	LL	12.57	778.38	12.71	778.24
CW09-073	63 - 73	790.95	LL	LL	20.02	770.93	21.82	769.13
CW10-055	45 - 55	792.30	LL	LL	22.58	769.72	24.45	767.85
CW12-085	75 - 85	789.33	LL	LL	9.78	779.55	10.11	779.22
CW13-085	75 - 85	790.96	LL	LL	9.58	781.38	9.88	781.08
CW15-055	45 - 55	790.78	LL	LL	20.71	770.07	22.57	768.21
CW21-040	30 - 40	794.88	LL	LL	17.07	777.81	17.71	777.17
CW22-018	8.0 - 18	796.34	LL	LL	17.70	778.64	18.23	778.11
HD-10D	59 - 69	792.80	22.88	769.92	20.97	771.83	22.77	770.03
HD-11D	71 - 81	791.42	21.60	769.82	19.61	771.81	21.39	770.03
HD-12S	14 - 24	791.13	BTOP	—	BTOP	—	BTOP	—
HD-12M	44 - 54	792.03	21.22	770.81	19.26	772.77	21.00	771.03
HD-13S	22.5 - 32.5	789.17	Birds Nest	—	18.68	—	19.07	770.10
HD-13D	96 - 106	789.96		—	20.41	771.28	19.94	770.02
HD-14S	22.5 - 32.5	790.47	22.53	767.94	19.31	770.06	22.27	768.20
MW130S	29.03 - 38.8	792.12	21.30	770.82	15.04	771.88	21.01	771.11
MW131M	58.3 - 68.3	786.92	17.02	769.90	15.91	771.92	16.86	770.06
MW131D	105 - 115	787.83	17.90	769.93	19.20	770.26	17.71	770.12
MW132S	38.5 - 48.5	789.46	21.31	768.15	18.31	770.80	21.07	768.39
MW133S	43.4 - 53.4	789.11	20.44	768.67	17.80	770.92	20.19	768.92
MW133D	59.5 - 69.5	788.72	19.92	768.80	10.30	784.32	19.65	769.07
P17-1	4.0 - 9.4	794.62	LL	LL	14.77	784.17	10.45	784.17
PZ-1	14 - 24	789.77	LL	LL	17.00	775.00	15.98	773.79
PZ-2	13 - 28	790.33	LL	LL	14.70	773.33	18.30	772.03
PZ-3	14 - 24	790.05	LL	LL	7.98	775.35	15.76	774.29
PZ-4	5.0 - 10	792.87	LL	LL	5.52	784.89	8.34	784.53
PZ-5	2.0 - 7.0	790.66	LL	LL	20.00	785.14	5.87	784.79
TTW-01	45 - 65	791.46	LL	LL	38.70	771.46	21.14	770.32
EW-1	9.5 - 73.5	809.67	LL	LL	—	770.97	39.60	770.07

ft. bgs - feet below ground surface  
ft. TOC - feet below top of casing  
ft. MSL - feet above mean sea level.  
  
LL - Lost Log  
BTOP - Below Top of Pump  
--- No reading available.

Table 3-1  
OU5 Monthly Water Levels  
Wright-Patterson AFB, Ohio  
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Well No.	Screened Interval (ft. bgs)	Ref. Point Elevation (ft. MSL)	8/31/2004 Depth to Water (ft. TOC)	8/31/2004 Water Level Elev (ft. MSL)	9/30/2004 Depth to Water (ft. TOC)	9/30/2004 Water Level Elev (ft. MSL)	10/27/2004 Depth to Water (ft. TOC)	10/27/2004 Water Level Elev (ft. MSL)
08-020-M	11 - 21	790.71	19.59	771.12	19.76	770.95	19.12	771.59
08-021-M	13 - 23	790.38	20.03	770.35	20.28	770.10	19.67	770.71
08-022-M	26 - 36	795.63	23.16	772.47	23.07	772.56	22.65	772.98
08-023-M	24 - 34	791.38	11.06	780.32	10.46	780.92	10.81	780.57
08-523-M	5.5 - 15.5	789.86	Dry	--	Dry	--	Dry	--
08-524-M	5.4 - 15.4	789.61	12.40	777.21	12.31	777.30	11.95	777.66
08-525-M	6.0 - 16	791.51	16.55	774.96	16.83	774.68	16.21	775.30
08-526-M	6.4 - 16.4	790.53	Dry	--	Dry	--	Dry	--
08-527-M	6.0 - 16	788.60	Dry	--	Dry	--	Dry	--
08-528-M	7.5 - 17.5	790.04	Dry	--	Dry	--	Dry	--
CW04-060	49.7 - 59.7	791.76	21.79	769.97	21.51	770.25	21.05	770.71
CW05-055	45 - 55	793.19	22.65	770.54	23.62	769.57	22.89	770.30
CW05-085	75 - 85	793.53	22.91	770.62	24.07	769.46	23.31	770.22
CW06-077	67 - 77	792.92	21.66	771.26	21.88	771.04	21.24	771.68
CW07-055	44.5 - 54.5	794.43	19.38	775.05	19.84	774.59	19.20	775.23
CW07-100	90 - 100	792.34	14.37	777.97	15.71	776.63	15.10	777.24
CW08-017	6.8 - 16.8	792.32	17.03	775.29	17.04	775.28	16.64	775.68
CW08-055	44.7 - 54.7	792.06	14.06	778.00	15.24	776.82	14.67	777.39
CW08-110	100 - 110	790.95	12.90	778.05	14.39	776.56	13.77	777.18
CW09-073	63 - 73	790.95	22.04	768.91	21.86	769.09	21.11	769.84
CW10-055	45 - 55	792.30	24.69	767.61	24.34	767.96	23.50	768.80
CW12-085	75 - 85	789.33	10.35	778.98	11.03	778.30	10.40	778.93
CW13-085	75 - 85	790.96	10.15	780.81	11.28	779.68	9.97	780.99
CW15-055	45 - 55	790.78	22.80	767.98	22.53	768.25	21.70	769.08
CW21-040	30 - 40	794.88	18.03	776.85	18.11	776.77	17.65	777.23
CW22-018	8.0 - 18	796.34	18.50	777.94	18.56	777.78	18.21	778.13
HD-10D	59 - 69	792.80	23.20	769.60	22.81	769.99	22.34	770.46
HD-11D	71 - 81	791.42	21.20	770.22	21.68	769.74	21.02	770.40
HD-12S	14 - 24	791.13	BTOP	--	BTOP	--	BTOP	--
HD-12M	44 - 54	792.03	21.15	770.88	21.30	770.73	20.67	771.36
HD-13S	22.5 - 32.5	789.17	19.30	769.87	19.21	769.96	19.51	769.66
HD-13D	96 - 106	789.96	20.15	769.81	20.06	769.90	18.67	771.29
HD-14S	22.5 - 32.5	790.47	22.55	767.92	22.14	768.33	21.49	768.98
MW130S	29.03 - 38.8	792.12	21.15	770.97	21.11	771.01	20.40	771.72
MW131M	58.3 - 68.3	786.92	17.01	769.91	17.04	769.88	16.41	770.51
MW131D	105 - 115	787.83	17.90	769.93	17.88	769.95	17.24	770.59
MW132S	38.5 - 48.5	789.46	21.32	768.14	21.02	768.44	20.30	769.16
MW133S	43.4 - 53.4	789.11	20.48	768.63	20.06	769.05	19.47	769.64
MW133D	59.5 - 69.5	788.72	19.97	768.75	19.57	769.15	18.98	769.74
P17-1	4.0 - 9.4	794.62	10.65	783.97	10.90	783.72	10.43	784.19
PZ-1	14 - 24	789.77	16.36	773.41	16.16	773.61	15.74	774.03
PZ-2	13 - 28	790.33	18.74	771.59	18.33	772.00	17.92	772.41
PZ-3	14 - 24	790.05	16.19	773.86	15.96	774.09	15.59	774.46
PZ-4	5.0 - 10	792.87	8.60	784.27	8.71	784.16	8.32	784.55
PZ-5	2.0 - 7.0	790.66	6.12	784.54	6.22	784.44	5.85	784.81
TTW-01	45 - 65	791.46	20.04	771.42	21.67	769.79	20.98	770.48
EW-1	9.5 - 73.5	809.67	39.48	770.19	42.26	767.41	41.09	768.58



**Table 3-2**  
**OU5 Groundwater Treatment System**  
**Water Quality Analytical Results and VOCs Removed<sup>1</sup>**  
**Wright-Patterson AFB, Ohio**

	Units	Location	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04
<b>VOCs</b>								
cis-1,2-DCE	µg/L	Influent	15	20	22	18	11	15
	µg/L	Effluent	1.2	1.7	ND	ND	1.1	2.3
trans-1,2- DCE	µg/L	Influent	ND	1.1	ND	1.0	ND	ND
	µg/L	Effluent	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	Influent	ND	ND	ND	ND	ND	1.1
	µg/L	Effluent	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	Influent	ND	ND	ND	ND	ND	ND
	µg/L	Effluent	ND	ND	ND	ND	ND	ND
TCE	µg/L	Influent	22	30	32	30	23	21
	µg/L	Effluent	ND	1.3	ND	ND	ND	ND
Methylene Chloride	µg/L	Influent	ND	ND	ND	ND	ND	ND
	µg/L	Effluent	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	Influent	ND	ND	ND	ND	ND	ND
	µg/L	Effluent	ND	ND	ND	ND	ND	ND
<b>Analyte</b>								
pH	SU	Influent	7.53	7.61	7.99	7.68	7.60	7.88
	SU	Effluent	8.18	8.22	8.36	8.25	8.18	8.15
Hardness	mg CaCO <sub>3</sub> /L	Influent	437	450	462	458	466	474
	mg CaCO <sub>3</sub> /L	Effluent	437	450	468	456	468	486
TSS	mg/L	Influent	5.0	5.0	5.0	5.0	5.0	5.0
	mg/L	Effluent	5.0	5.0	5.0	5.0	5.0	5.0
TDS	mg/L	Influent	626	624	670	668	686	654
	mg/L	Effluent	626	654	664	666	656	676
TOC	mg/L	Influent	NM	NM	NM	NM	NM	NM
	mg/L	Effluent	3.3	3.4	4.0	3.7	3.0	2.7
Iron (Total)	mg/L	Influent	2.41	2.05	2.21	2.30	2.30	2.37
	mg/L	Effluent	2.27	1.90	2.24	2.30	2.37	2.24
Iron (Dissolved)	mg/L	Influent	0.92	2.03	2.26	2.27	1.12	1.52
	mg/L	Effluent	0.02	0.02	0.00	0.11	0.10	0.01
<b>Total Volume Discharged (in millions of gallons)</b>			20.6	17.4	16.0	3.0	7.3	18.1
<b>Total Pounds of TCE Removed</b>			3.77	4.35	4.29	0.76	1.40	3.17
<b>Total Pounds of All VOCs Removed</b>			6.35	7.41	7.23	1.25	2.07	5.60

ND - Not Detected  
NM - Analyte Not Measured  
DCE - Dichloroethene  
TCE - Trichloroethene

SU - Standard Units  
mg - milligrams  
µg - micrograms  
L - liter  
CaCO<sub>3</sub> - Calcium Carbonate  
TSS - Total Suspended Solids  
TOC - Total Organic Carbon  
TDS - Total Dissolved Solids

<sup>1</sup> Data obtained from Tetra Tech's monthly treatment system report: May 2004 through October 2004

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**Table 4-1**  
**OU4 Landfill Gas Monitoring Results**  
**Wright-Patterson AFB, Ohio**  
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WPAFB  
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Monitoring Location	Date	CO <sub>2</sub> %	O <sub>2</sub> %	CH <sub>4</sub> %	LEL %	Atmos. Press. (In. Hg)
LG-1	04/17/98	1.7	18.6	0	0	NM
	10/14/98	5.9	16.1	0	0	NM
	01/12/99	0.0	16.9	0	0	NM
	04/15/99	2.6	18.1	0	0	NM
	07/20/99	0.0	18.8	0	0	NM
	10/22/99	2.9	17.5	0	0	NM
	01/17/00	0.9	18.9	0	0	NM
	04/10/00	0.0	20.3	0	0	29.5
	07/25/00	7.2	9.8	0	0	29.2
	09/28/00	0.7	18.6	0	0	NM
	01/29/01	3.0	17.5	0	0	29.1
	04/26/01	2.6	16.3	0	0	NM
	07/12/01	8.7	5.9	0	0	28.9
	09/28/01	0.2	19.2	0	0	29.2
	01/08/02	1.7	19.1	0	0	29.4
	04/30/02	1.9	17.7	0	0	22.9
	07/09/02	0.0	19.7	0	0	29.2
	10/02/02	5.8	12.2	0	0	29.2
	02/27/03	3.1	19.5	0	0	29.2
	04/21/03	3.3	16.5	0	0	29.0
	07/15/03	8.0	5.1	0	0	29.1
	09/22/03	11.7	7.6	0	0	29.0
	02/19/04	4.5	16.7	0	0	29.0
	04/06/04	2.4	17.4	0	0	29.2
	07/26/04	NA***	19.1	0	0	29.3
	09/30/04	5.3	16.8	0	0	29.4
LG-2	04/17/98	3.7	21.7	0	0	NM
	10/14/98	7.6	13.1	0	0	NM
	01/12/99	10.1	5.2	0	0	NM
	04/15/99	3.1	8.2	0	0	NM
	07/20/99	7.0	11.0	0	0	NM
	10/22/99	7.8	13.8	0	0	NM
	01/17/00	3.8	15.0	0	0	NM
	04/10/00	1.3	14.4	0	0	29.5
	07/25/00	6.6	4.3	0	0	29.2
	09/28/00	9.5	10.0	0	0	NM
	01/29/01	5.7	11.1	0	0	29.1
	04/26/01	5.2	8.9	0	0	NM
	07/12/01	6.4	6.8	0	0	28.9
	09/28/01	10.3	1.6	0	0	29.2
	01/08/02	5.0	12.4	0	0	29.4
	04/30/02	1.4	16.7	0	0	22.9
	07/09/02	0.1	19.5	0	0	29.2
	10/02/02	7.3	6.4	0	0	29.2
	02/27/03	5.5	3.6	0	0	29.2
	04/21/03	3.7	6.5	0	0	29.0
	07/15/03	4.8	6.7	0	0	29.1
	09/22/03	7.3	3.9	0	0	29.0
	02/19/04	3.8	9.6	0	0	29.0
	04/06/04	3.2	9.0	0	0	29.2
	07/26/04	NA***	19.2	0	0	29.3
	09/30/04	6.0	14.0	0	0	29.4
LG-3	04/17/98	2.9	22.9	0	0	NM
	10/14/98	3.8	18.4	0	0	NM
	01/12/99	2.0	19.0	0	0	NM
	04/15/99	2.1	15.4	0	0	NM
	07/20/99	3.5	17.1	0	0	NM
	10/22/99	2.3	19.2	0	0	NM
	01/17/00	1.0	18.4	0	0	NM
	04/10/00	0.2	17.7	0	0	29.5
	07/25/00	5.0	13.0	0	0	29.2
	09/28/00	3.6	16.8	0	0	NM
	01/29/01	2.3	16.6	0	0	29.1
	04/26/01	3.0	5.9	0	0	NM
	07/12/01	7.6	2.7	0	0	28.9
	09/28/01	7.1	13.5	0	0	29.2
	01/08/02	5.0	10.5	0	0	29.4
	04/30/02	2.9	12.2	0	0	22.9
	07/09/02	0.0	19.6	0	0	29.2
	10/02/02	3.5	14.0	0	0	29.2
	02/27/03	5.2	1.7	0	0	29.2
	04/21/03	4.6	1.2	0	0	29.0
	07/15/03	6.8	3.7	0	0	29.1
	09/22/03	7.8	11.8	0	0	29.0
	02/19/04	4.1	7.2	0	0	29.0
	04/06/04	3.7	8.2	0	0	29.2
	07/26/04	NA***	19.1	0	0	29.3
	09/30/04	3.7	17.5	0	0	29.4

**Table 4-1**  
**OU4 Landfill Gas Monitoring Results**  
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Monitoring Location	Date	CO <sub>2</sub> %	O <sub>2</sub> %	CH <sub>4</sub> %	LEL %	Atmos. Press. (in. Hg)
LG-6	04/17/98	2.6	13.7	0	0	NM
	10/14/98	5.1	13.9	0	0	NM
	01/12/99	3.5	4.8	0	0	NM
	04/15/99	1.9	17.4	0	0	NM
	07/20/99	1.7	16.0	0	0	NM
	10/22/99	4.4	15.2	0	0	NM
	01/17/00	2.0	18.3	0	0	NM
	04/10/00	1.7	17.0	0	0	29.5
	07/25/00	2.8	12.5	0	0	29.2
	09/28/00	2.7	13.8	0	0	NM
	01/29/01	2.1	16.1	0	0	29.1
	04/26/01	2.3	14.2	0	0	NM
	07/12/01	2.7	13.6	0	0	28.9
	09/28/01	4.4	10.7	0	0	29.2
	01/08/02	2.6	15.8	0	0	29.4
	04/30/02	0.9	18.4	0	0	22.9
	07/09/02	0.0	19.7	0	0	29.2
	10/02/02	5.1	13.7	0	0	29.2
	02/27/03	3.1	17.8	0	0	29.2
	04/21/03	3.5	16.1	0	0	29.0
	07/15/03	3.0	14.4	0	0	29.1
	09/22/03	4.8	9.9	0	0	29.0
	02/19/04	3.3	14.2	0	0	29.0
	04/06/04	2.7	15.6	0	0	29.2
	07/26/04	NA***	19.1	0	0	29.3
	09/30/04	5.2	15.5	0	0	29.4
LG-7	04/17/98	0.8	18.7	0	0	NM
	10/14/98	2.1	18.7	0	0	NM
	01/12/99	1.0	2.8	0	0	NM
	04/15/99	0.9	20.1	0	0	NM
	07/20/99	0.7	18.6	0	0	NM
	10/22/99	1.0	19.2	0	0	NM
	01/17/00	0.7	19.2	0	0	NM
	04/10/00	0.7	19.0	0	0	29.5
	07/25/00	1.6	18.1	0	0	29.2
	09/28/00	1.3	17.8	0	0	NM
	01/29/01	0.6	19.1	0	0	29.1
	04/26/01	0.7	19.1	0	0	NM
	07/12/01	1.6	16.8	0	0	28.9
	09/28/01	2.4	16.6	0	0	29.2
	01/08/02	1.0	19.9	0	0	29.4
	04/30/02	1.0	19.0	0	0	22.9
	07/09/02	0.0	19.7	0	0	29.2
	10/02/02	1.8	16.8	0	0	29.2
	02/27/03	1.0	20.2	0	0	29.2
	04/21/03	0.9	19.3	0	0	29.0
	07/15/03	1.6	17.5	0	0	29.1
	09/22/03	2.6	15.8	0	0	29.0
	02/19/04	0.9	18.8	0	0	29.0
	04/06/04	0.9	19.0	0	0	29.2
	07/26/04	NA***	19.1	0	0	29.3
	09/30/04	1.2	19.2	0	0	29.4
LG-8	04/17/98	1.9	18.8	0	0	NM
	10/14/98	4.0	15.6	0	0	NM
	01/12/99	3.2	15.7	0	0	NM
	04/15/99	2.6	17.0	0	0	NM
	07/20/99	0.8	18.2	0	0	NM
	10/22/99	3.2	16.2	0	0	NM
	01/17/00	2.2	18.8	0	0	NM
	04/10/00	0.3	19.4	0	0	29.5
	07/25/00	2.4	16.5	0	0	29.2
	09/28/00	2.1	16.2	0	0	NM
	01/29/01	1.8	17.4	0	0	29.1
	04/26/01	1.6	17.4	0	0	NM
	07/12/01	1.4	17.5	0	0	28.9
	09/28/01	3.5	14.5	0	0	29.2
	01/08/02	0.6	19.6	0	0	29.4
	04/30/02	1.7	17.6	0	0	22.9
	07/09/02	0.6	18.7	0	0	29.2
	10/02/02	13.5	14.9	0	0	29.2
	02/27/03	3.6	16.5	0	0	29.2
	04/21/03	2.9	15.6	0	0	29.0
	07/15/03	1.9	16.7	0	0	29.1
	09/22/03	3.7	13.7	0	0	29.0
	02/19/04	2.7	16.0	0	0	29.0
	04/06/04	2.6	15.7	0	0	29.2
	07/26/04	NA***	19.2	0	0	29.3
	09/30/04	1.4	18.4	0	0	29.4

**Table 4-1**  
**OU4 Landfill Gas Monitoring Results**  
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Monitoring Location	Date	CO <sub>2</sub> %	O <sub>2</sub> %	CH <sub>4</sub> %	LEL %	Atmos. Press. (in. Hg)
LG-9	04/17/98	1.8	14.0	0	0	NM
	10/14/98	4.2	10.4	0	0	NM
	01/12/99	0.0	20.8	0	0	NM
	04/15/99	1.7	17.0	0	0	NM
	07/20/99	1.5	14.4	0	0	NM
	10/22/99	3.0	12.6	0	0	NM
	01/17/00	1.4	17.4	0	0	NM
	04/10/00	1.5	14.5	0	0	29.5
	07/25/00	2.6	12.5	0	0	29.2
	09/28/00	2.3	14.5	0	0	NM
	01/29/01	1.6	16.0	0	0	29.1
	04/26/01	1.5	15.2	0	0	NM
	07/12/01	2.4	12.9	0	0	28.9
	09/28/01	3.8	11.9	0	0	29.2
	01/08/02	1.8	16.2	0	0	29.4
	04/30/02	2.4	12.2	0	0	22.9
	07/09/02	3.7	10.2	0	0	29.2
	10/02/02	3.7	10.1	0	0	29.2
	02/27/03	2.4	16.0	0	0	29.2
	04/21/03	2.7	12.0	0	0	29.0
	07/15/03	4.0	17.2	0	0	29.1
	09/22/03	3.4	10.1	0	0	29.0
	02/19/04	2.1	14.2	0	0	29.0
	04/06/04	1.8	14.7	0	0	29.2
	07/26/04	NA***	19.1	0	0	29.3
	09/30/04	3.1	14.2	0	0	29.4
LG-10	04/17/98	8.3	0.0	1.9	16	NM
	10/14/98	9.2	0.0	3.1	NM	NM
	02/03/99*	7.5	0.2	2.9	60	NM
	04/15/99	8.4	1.4	2.2	48	NM
	07/20/99	7.9	0.5	1.8	36	NM
	10/22/99	8.9	0.0	2.7	54	NM
	01/17/00	Could not open vault (damaged)**			--	--
	04/10/00	Could not open vault (damaged)**			--	--
	07/25/00	Could not open vault (damaged)**			--	--
	09/28/00	Could not open vault (damaged)**			--	--
	01/29/01	0.0	19.6	0	0	29.1
	04/26/01	7.8	0.0	2.5	50	NM
	07/12/01	7.8	0.0	3.9	76	28.9
	09/28/01	7.7	0.7	4.7	92	29.2
	01/09/02	0.0	20.5	0	0	29.4
	04/30/02	6.7	0.0	1.4	30	22.9
	07/09/02	0.2	18.9	0	0	29.2
	10/02/02	6.7	0.0	3.4	68	29.2
	02/27/03	Reading unable to be taken - point under a sheet of ice				
	04/21/03	6.3	0.1	3.5	70	29.0
	07/15/03	6.6	0.5	3.4	68	29.1
	09/22/03	6.8	0.0	4.4	88	29.0
	02/19/04	6.8	0.6	4.8	96	29.0
	04/06/04	6.5	0.6	1.8	36	29.2
	07/26/04	NA***	19.2	0	0	29.3
	09/30/04	7.5	1.5	2.2	44	29.4
Bldg. 878A NW	04/17/98	Building inaccessible			--	--
	10/14/98	0.0	20.3	0	0	NM
	01/12/99	0.0	21.0	0	0	NM
	04/15/99	0.1	21.2	0	0	NM
	07/20/99	0.0	19.1	0	0	NM
	10/22/99	0.0	20.5	0	0	NM
	01/17/00	0.0	19.5	0	0	NM
	04/10/00	0.0	20.2	0	0	29.5
	07/25/00	0.0	20.3	0	0	29.2
	09/28/00	0.0	19.3	0	0	NM
	01/29/01	0.0	19.8	0	0	29.1
	04/26/01	0.0	20.5	0	0	NM
	07/12/01	0.0	20.2	0	0	28.9
	09/28/01	0.0	19.8	0	0	29.2
	01/08/02	0.0	20.3	0	0	29.4
	04/30/02	0.0	20.3	0	0	22.9
	07/09/02	0.0	19.3	0	0	29.2
	10/02/02	0.0	19.1	0	0	29.2
	02/27/03	0.0	20.9	0	0	29.2
	04/21/03	0.0	20.9	0	0	29.0
	07/15/03	0.0	19.8	0	0	29.1
	09/22/03	0.0	19.5	0	0	29.0
	02/19/04	0.0	20.4	0	0	29.0
	04/06/04	0.0	19.8	0	0	29.2
	07/26/04	NA***	19.1	0	0	29.3
	09/30/04	0.0	19.2	0	0	29.4

**Table 4-1**  
**OU4 Landfill Gas Monitoring Results**  
**Wright-Patterson AFB, Ohio**  
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Monitoring Location	Date	CO <sub>2</sub> %	O <sub>2</sub> %	CH <sub>4</sub> %	LEL %	Atmos. Press. (In. Hg)
Bldg. 878A SE	04/17/98	Building inaccessible		--	--	--
	10/14/98	0.0	20.3	0	0	NM
	01/12/99	0.0	21.0	0	0	NM
	04/15/99	0.0	21.2	0	0	NM
	07/20/99	0.0	19.1	0	0	NM
	10/22/99	0.0	20.5	0	0	NM
	01/17/00	0.0	18.6	0	0	NM
	04/10/00	0.0	20.2	0	0	29.5
	07/25/00	0.0	20.4	0	0	29.2
	09/29/00	0.0	18.8	0	0	NM
	01/29/01	0.0	20.0	0	0	29.1
	04/26/01	0.0	20.5	0	0	NM
	07/12/01	0.0	20.2	0	0	28.9
	09/28/01	0.0	19.8	0	0	29.2
	01/08/02	0.0	20.3	0	0	29.4
	04/30/02	0.0	20.3	0	0	22.9
	07/09/02	0.0	19.4	0	0	29.2
	10/02/02	0.0	19.1	0	0	29.2
	02/27/03	0.0	20.9	0	0	29.2
	04/21/03	0.0	20.7	0	0	29.0
	07/15/03	0.0	19.8	0	0	29.1
	09/22/03	0.0	19.6	0	0	29.0
	02/19/04	0.0	20.4	0	0	29.0
	04/06/04	0.0	19.8	0	0	29.2
	07/26/04	NA***	19.1	0	0	29.3
	09/30/04	0.0	19.2	0	0	29.4

**Notes:**

\* - The lid for LG-10 was frozen on Jan 12, 1999. The reading was collected on Feb 3, 1999

\*\* - The flush-mounted surface completion for LG-10 was damaged by a snowplow and could not be opened. On January 17, 2001, the surface completion for LG-10 was replaced.

NA\*\*\* CO2 could not be read. GEM unit out of calibration for CO2.

CO<sub>2</sub> = Carbon dioxide

O<sub>2</sub> = Oxygen

CH<sub>4</sub> = Methane

LEL = Lower Explosive Level

NM = Not measured

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**Table 5-1**  
**OU2 Round 15 Groundwater Monitoring Field Parameters**  
**Wright-Patterson AFB, Ohio**  
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Well Number	Sampling Round	Date Sampled	Static Depth to Water (ft. TOC)	Water Level Elevation (ft. MSL)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Ferrous Iron (mg/L)
<b>Wells Sampled Semi-Annually</b>											
<b>04-016-M</b> (MP Elev.; ft.MSL) 820.9 <sup>(a)</sup> 818.33 <sup>(b)</sup>	Baseline	21-May-97	11.15	809.75	12.40	7.11	0.843	17.0	-196.0	1.73	7.92
	1	22-Oct-97	12.62	808.28	14.80	6.99	0.775	1.5	-208.0	5.63	7.64
	2	28-Apr-98	10.65	810.25	12.10	7.09	0.748	4.0	-287.1	0.00	4.33
	3	15-Oct-98	11.51	809.39	15.70	6.96	0.819	4.0	-198.8	0.02	7.10
	4	13-Apr-99	10.50	810.40	14.20	8.62	0.825	5.0	-180.5	0.46	3.90
	5	11-Oct-99	13.00	807.90	15.70	7.05	0.571	9.0	-146.7	ERR	1.89
	6	25-Apr-00	7.69	810.64	13.80	7.16	1.100	23.0	-131.1	ERR	8.88
	7	19-Oct-00	9.60	808.73	15.10	7.12	0.898	0.0	-155.8	0.04	5.10
	8	17-Apr-01	8.85	809.48	12.10	6.87	0.691	2.0	-161.2	0.31	5.10
	9	10-Oct-01	8.76	809.57	15.74	6.82	0.977	2.7	-120.9	2.62	1.84
	10	18-Apr-02	6.86	811.47	14.70	6.77	0.893	1.8	-124.0	2.68	7.04
	11	09-Oct-02	8.44	809.89	16.42	7.07	0.944	0.0	-156.0	0.38	11.36
	12	16-Apr-03	4.31	814.02	14.20	6.91	0.962	0.0	-155.0	0.00	8.76
	13	02-Oct-03	7.26	811.07	15.15	6.91	0.545	17.4	-180.0	0.00	12.84
	14	16-Apr-04	7.00	811.33	14.64	6.87	0.943	7.2	-149.0	0.00	5.20
	15	07-Oct-04	8.83	809.50	16.14	6.79	0.919	0.8	-188.0	0.25	>13.2
<b>04-518-M</b> (MP Elev.; ft.MSL) 820.41	Baseline	13-May-97	11.00	809.41	10.80	7.06	0.800	NA	-95.0	1.87	2.36
	1	21-Oct-97	12.89	807.52	18.90	6.87	0.688	NA	-138.0	4.54	2.84
	2	29-Apr-98	11.25	809.16	10.90	7.19	0.822	0.0	-84.3	0.96	4.20
	3	15-Oct-98	12.00	808.41	20.10	6.53	0.766	9.0	-179.1	0.12	2.88
	4	13-Apr-99	11.10	809.31	10.00	6.83	1.029	3.0	-65.8	1.19	4.68
	5	11-Oct-99	13.94	806.47	20.20	6.91	0.814	2.0	-210.3	0.10	3.11
	6	24-Apr-00	10.85	809.56	11.60	6.76	2.070	24.0	-140.1	ERR	2.19
	7	17-Oct-00	12.51	807.90	18.90	7.07	0.742	ERR	-95.0	0.38	6.00*
	8	18-Apr-01	11.95	808.46	9.70	6.65	1.770	0.0	-54.2	0.01	5.08
	9	11-Oct-01	13.21	807.20	ERR	ERR	ERR	0.0	ERR	ERR	3.75
	10	17-Apr-02	9.64	810.77	12.10	6.76	1.170	15.6	-117.0	1.74	4.42
	11	10-Oct-02	10.97	809.44	20.92	6.85	0.937	3.8	-118.0	0.00	3.24
	12	17-Apr-03	12.78	807.63	9.80	6.83	1.800	0.0	-141.0	0.98	5.12
	13	02-Oct-03	Well abandoned								
<b>NEA-MW20-2S</b> (MP Elev.; ft.MSL) 821.49	Baseline	22-May-97	10.10	811.39	12.40	6.80	0.871	2.8	-71.0	3.17	1.10
	1	21-Oct-97	11.80	809.69	17.40	6.58	0.687	2.6	-176.0	4.06	1.30
	2	20-Apr-98	9.31	812.18	11.60	7.03	0.781	7.0	-102.8	1.87	9.70
	3	15-Oct-98	10.54	810.95	18.40	6.39	0.697	137	-153.3	ERR	5.92
	4	13-Apr-99	9.66	811.83	11.50	6.94	0.522	0.0	-110.3	0.12	1.69
	5	11-Oct-99	12.44	809.05	18.70	6.77	0.584	0.0	-172.7	ERR	1.92
	6	20-Apr-00	8.94	812.55	15.10	6.74	0.970	17.0	-189.3	ERR	7.40
	7	17-Oct-00	10.91	810.58	17.10	6.92	0.710	ERR	-158.8	0.17	6.40
	8	19-Apr-01	10.21	811.28	12.20	6.90	0.943	0.0	-124.8	0.06	1.77
	9	17-Oct-01	9.57	811.92	16.24	6.67	1.020	0.0	-114.3	1.50	7.30
	10	16-Apr-02	7.45	814.04	13.60	6.76	0.796	10.1	-103.0	1.50	6.08
	11	09-Oct-02	9.40	812.09	18.82	6.91	0.784	0.2	-117.0	0.00	5.86
	12	17-Apr-03	7.95	813.54	11.49	7.22	0.915	9.4	-146.0	0.00	4.01
	13	02-Oct-03	7.86	813.63	18.38	6.77	0.946	24.3	-175.0	0.27	3.65
	14	15-Apr-04	7.24	814.25	12.04	7.13	0.815	12.7	-174.0	4.12	2.03
	15	07-Oct-04	9.83	811.66	18.25	7.03	0.850	2.7	-168.0	8.41	2.68
<b>NEA-MW21-3S</b> (MP Elev.; ft.MSL) 820.85	2	29-Apr-98	11.89	808.96	Not sampled, free product			--	--	--	--
	3	15-Oct-98	12.69	808.16	Not sampled, free product			--	--	--	--
	4	13-Apr-99	11.00	809.85	11.90	7.12	0.822	21.0	-54.9	2.51	2.08
	5	11-Oct-99	14.19	806.66	19.20	7.03	0.578	14.0	-103.8	ERR	1.80
	6	24-Apr-00	12.96	807.89	12.70	7.19	0.930	9.0	-71.7	4.80	5.08
	7	19-Oct-00	12.51	808.34	16.30	6.69	0.937	3.0	-40.4	7.90	3.11
	8	18-Apr-01	12.83	808.02	11.30	6.76	1.110	0.0	77.5	1.00	2.68
	9	17-Oct-01	11.77	809.08	16.31	6.89	1.069	1.0	-105.5	2.50	4.39
	10	16-Apr-02	9.36	811.49	16.20	7.09	0.780	11.0	-115.0	5.55	2.64
	11	09-Oct-02	Not sampled - Well not accessible, remediation system in place.								
	12	23-Apr-03	9.72	811.13	12.50	7.09	1.210	3.1	-154.0	0.00	3.36
	13	02-Oct-03	Not sampled - Well not accessible, remediation system in place.								
	14	15-Apr-04	9.04	811.81	14.23	7.10	0.876	286.0	-138.0	0.93	1.74
	15	07-Oct-04	12.16	808.69	18.75	7.19	0.781	7.9	-149.0	0.50	2.02



**Table 5-1**  
**OU2 Round 15 Groundwater Monitoring Field Parameters**  
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Well Number	Sampling Round	Date Sampled	Static Depth to Water (ft. TOC)	Water Level Elevation (ft. MSL)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Ferrous Iron (mg/L)
<b>NEA-MW26-3S</b> (MP Elev.: ft.MSL) 817.6	6	24-Apr-00	12.74	804.86	12.80	7.18	0.000	0.0	-137.3	1.65	1.23
	7	17-Oct-00	14.17	803.43	16.90	7.19	0.000	ERR	-279.9	0.33	14.0
	8	17-Apr-01	13.59	804.01	10.90	6.58	0.000	0.0	-224.8	0.40	0.70
	9	15-Oct-01	12.97	804.63	17.56	6.75	1.936	5.0	-236.4	1.62	1.29
	10	18-Apr-02	11.40	806.20	14.10	7.00	1.150	3.3	-138.0	1.04	0.14
	11	09-Oct-02	12.62	804.98	18.67	7.03	1.150	0.0	-103.0	0.86	1.32
	12	09-Apr-03	13.20	804.40	10.60	7.16	1.430	14.8	-65.0	0.00	0.44
	13	02-Oct-03	11.49	806.11	18.93	6.85	1.010	2.1	-177.0	3.17	1.78
	14	16-Apr-04	10.82	806.78	13.20	6.87	1.010	16.4	-5.0	0.18	0.07
	15	07-Oct-04	12.80	804.80	19.33	6.98	0.883	0.0	-237.0	0.37	1.81
<b>NEA-MW28-4I</b> (MP Elev.: ft.MSL) 819.92 <sup>(a)</sup> 818.38 <sup>(b)</sup>	Baseline	14-May-97	12.33	807.59	14.30	7.19	0.817	11.8	-169.0	0.77	5.10
	1	20-Oct-97	13.99	805.93	14.90	7.44	0.725	2.0	-121.0	3.83	6.92
	2	28-Apr-98	13.07	806.85	13.60	7.29	0.857	0.0	-121.0	9.65	3.34
	3	15-Oct-98	13.13	806.79	14.90	7.17	0.947	2.0	-143.3	0.04	4.76
	4	13-Apr-99	12.99	806.93	13.70	7.31	0.498	12.0	-119.9	0.21	1.79
	5	11-Oct-99	14.83	805.09	15.70	7.21	0.999	2.0	-185.1	0.19	3.42
	6	24-Apr-00	11.91	806.47	13.60	7.02	0.857	82.0	-131.9	0.21	1.98
	7	17-Oct-00	13.60	804.78	15.00	7.24	1.380	ERR	9.25	1.02	5.05
<b>NEA-MW28-5S</b> (MP Elev.: ft.MSL) 820.10 <sup>(a)</sup> 818.50 <sup>(b)</sup>	7**	08-Dec-00	14.81	803.69	14.90	6.92	1.000	0.0	-126.2	0.09	5.09
	8	17-Apr-01	11.95	806.55	12.20	7.19	1.030	20.0	-114.9	0.97	NA
	9	15-Oct-01	11.15	807.35	18.24	6.91	2.737	4.0	-145.8	0.84	5.10
	10	16-Apr-02	9.76	808.74	16.40	7.01	0.850	10.7	-141.0	0.39	5.44
	11	10-Oct-02	11.02	807.48	18.88	7.01	0.886	0.0	-149.0	0.00	7.50
	12	09-Apr-03	9.77	808.73	12.90	7.12	1.370	5.5	-151.0	0.00	5.03
	13	02-Oct-03	9.90	808.60	18.10	6.98	0.970	3.4	-161.0	2.00	6.34
	14	16-Apr-04	8.98	809.52	14.07	6.86	0.929	7.5	-154.0	0.76	6.26
	15	07-Oct-04	11.32	807.18	17.78	7.12	0.891	8.3	-188.0	0.47	5.58
<b>OW-1</b> (MP Elev.: ft.MSL) 817.2	Baseline	14-May-97	8.50	808.70	12.80	6.94	0.850	1.7	-136.0	1.00	5.10
	1	20-Oct-97	9.95	807.25	17.80	7.07	0.689	1.3	-141.0	3.59	5.46
	2	28-Apr-98	8.55	808.65	12.10	7.15	0.693	0.0	-275.7	0.00	1.99
	3	15-Oct-98	9.14	808.06	18.30	6.55	0.761	1.0	-156.0	7.93	4.66
	4	13-Apr-99	8.31	808.89	12.20	8.86	0.840	4.0	123.7	0.10	1.36
	5	13-Oct-99	10.81	806.39	18.40	6.87	0.846	0.0	-4.9	0.38	3.06
	6	24-Apr-00	7.89	809.31	12.60	7.38	1.141	0.0	-100.2	1.95	4.22
	7	17-Oct-00	9.49	807.71	17.80	7.28	0.918	ERR	9.68	0.23	4.46
	8	16-Apr-01	9.11	808.09	11.80	6.95	0.644	6.0	116.8	ERR	3.30
	9	15-Oct-01	8.65	808.55	18.89	6.97	2.409	0.0	-143.9	1.36	2.75
	10	16-Apr-02	7.15	810.05	19.10	7.07	0.779	13.6	-156.0	1.00	4.82
	11	10-Oct-02	8.48	808.72	19.86	6.89	0.839	0.0	-139.0	0.00	5.16
	12	17-Apr-03	7.36	809.84	13.40	7.02	0.844	5.0	-161.0	0.00	9.40
	13	02-Oct-03	7.27	809.93	18.34	6.75	0.875	5.3	-152.0	2.42	6.15
	14	16-Apr-04	6.58	810.62	13.75	6.74	0.826	19.8	-146.0	0.77	6.12
	15	07-Oct-04	8.76	808.44	18.90	6.93	0.742	0.0	-151.0	0.00	4.36
<b>OW-2</b> (MP Elev.: ft.MSL) 819.77 <sup>(a)</sup> 817.64 <sup>(b)</sup>	Baseline	21-May-97	12.71	807.06	12.90	6.90	0.864	2.7	-145.0	2.68	5.10
	3	21-Oct-98	13.48	806.29	15.30	6.53	0.794	1.0	-123.3	0.78	5.40
	4	13-Apr-99	13.19	806.58	14.40	7.18	0.532	0.0	-116.6	0.05	1.82
	5	11-Oct-99	15.20	804.57	15.30	6.99	0.880	1.0	-168.7	0.14	3.52
	6	25-Apr-00	10.02	807.62	14.20	7.04	0.919	11.0	-133.4	ERR	8.32
	7	19-Oct-00	11.69	805.95	15.00	6.64	0.610	7.0	-129.5	0.69	12.4
	8	17-Apr-01	10.97	806.67	12.90	6.56	0.821	0.0	-128.9	0.31	5.10
	9	10-Oct-01	10.76	806.88	16.35	6.82	1.090	0.9	-116.5	2.41	4.50
	10	18-Apr-02	10.09	807.55	15.00	7.35	0.772	3.7	-133.0	0.28	10.56
	11	09-Oct-02	12.45	805.19	16.75	6.99	0.878	6.8	-152.0	0.23	9.48
	12	16-Apr-03	9.40	808.24	15.64	6.97	1.030	2.8	-142.0	0.43	9.27
	13	02-Oct-03	9.35	808.29	16.00	6.84	0.957	9.5	-152.0	2.69	8.16
	14	15-Apr-04	8.30	809.34	13.61	6.92	0.868	23.4	-150.0	2.40	5.90
	15	07-Oct-04	10.59	807.05	18.00	7.05	0.786	0.0	-162.0	0.00	>13.2

**Table 5-1**  
**OU2 Round 15 Groundwater Monitoring Field Parameters**  
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Well Number	Sampling Round	Date Sampled	Static Depth to Water (ft. TOC)	Water Level Elevation (ft. MSL)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Ferrous Iron (mg/L)
<b>OW-3</b> (MP Elev.: ft.MSL) 820.95 <sup>(a)</sup> 819.04 <sup>(b)</sup>	Baseline	22-May-97	14.54	806.41	12.40	7.00	0.878	6.7	-118.0	2.61	3.08
	1	23-Oct-97	15.92	805.03	17.60	6.88	0.770	2.0	-154.0	4.58	7.62
	2	29-Apr-98	14.30	806.65	11.50	7.14	0.757	6.0	-305.0	0.00	6.76
	3	15-Oct-98	15.10	805.85	19.10	7.13	0.837	2.0	-140.6	0.13	4.58
	4	13-Apr-99	14.40	806.55	12.00	7.20	0.833	7.0	-125.1	0.00	4.60
	5	11-Oct-99	16.70	804.25	18.00	7.09	0.846	1.0	-166.9	0.19	4.72
	6	25-Apr-00	12.04	807.00	12.60	7.20	0.910	52.0	-121.9	1.95	1.99
	7	19-Oct-00	13.60	805.44	17.50	6.76	0.558	ERR	-148.8	0.26	7.40
	8	17-Apr-01	13.02	806.02	11.70	6.81	0.666	4.0	289.1	ERR	5.10
	9	10-Oct-01	12.81	806.23	19.89	6.78	1.873	18.1	-131.4	4.12	5.88
	10	18-Apr-02	11.10	807.94	14.20	6.93	0.840	13.6	-149.0	1.08	1.76
	11	09-Oct-02	14.41	804.63	19.80	7.10	0.830	0.0	-169.0	0.23	5.24
	12	16-Apr-03	11.42	807.62	12.50	7.09	1.020	0.0	-183.0	0.00	8.68
	13	02-Oct-03	11.35	807.69	18.76	6.94	0.484	2.2	-187.0	0.00	5.92
	14	15-Apr-04	10.69	808.35	12.44	7.08	0.900	23.1	-168.0	0.00	5.85
	15	07-Oct-04	12.65	806.39	19.45	7.17	0.888	5.6	-193.0	3.99	4.68
<b>OW-4</b> (MP Elev.: ft.MSL) 817.2	Baseline	27-May-97	11.15	806.05	12.60	7.09	0.806	48.0	-93.0	1.78	9.58
	1	22-Oct-97	12.39	804.81	15.40	6.92	0.785	29.4	-136.0	4.76	9.96
	2	29-Apr-98	10.95	806.25	12.90	7.29	0.837	0.0	-117.7	1.03	9.24
	3	16-Oct-98	11.33	805.87	18.30	6.40	0.844	43.0	-111.2	0.13	5.86
	4	14-Apr-99	11.01	806.19	12.50	7.13	0.537	ERR	-123.5	0.12	1.89
	5	11-Oct-99	12.68	804.52	15.70	7.01	0.813	6.0	-193.9	0.14	3.82
	6	25-Apr-00	10.11	807.09	13.30	7.12	1.280	52.0	-107.7	1.61	1.65
	7	19-Oct-00	11.56	805.64	16.20	6.54	0.561	ERR	-127.4	0.09	10.0
	8	17-Apr-01	12.44	804.76	12.70	6.82	0.685	12.0	188.9	0.22	5.10
	9	10-Oct-01	10.62	806.58	18.18	6.75	1.217	0.0	-88.3	3.77	6.80
	10	18-Apr-02	9.10	808.10	12.80	6.46	0.990	0.1	-106.0	1.22	9.84
	11	09-Oct-02	11.60	805.60	16.65	6.94	0.875	1.9	-133.0	0.34	6.12
	12	16-Apr-03	9.36	807.84	12.71	7.17	1.000	20.0	-139.0	0.46	6.60
	13	02-Oct-03	9.62	807.58	16.89	6.72	0.848	2.2	-132.0	2.95	6.36
	14	15-Apr-04	8.60	808.60	11.65	6.89	0.898	17.1	-110.0	0.00	2.32
	15	07-Oct-04	10.50	806.70	17.64	6.90	0.879	0.0	-169.0	0.31	3.58
<b>P18-1</b> (MP Elev.: ft.MSL) 816.72	Baseline	16-May-97	10.65	806.07	10.70	6.49	NR	>100	-50.0	2.12	5.10
	1	21-Oct-97	Dry	—	—	—	—	—	—	—	—
	2	29-Apr-98	BTP	—	12.60	6.73	0.783	23.0	-188.4	1.36	7.98
	3	16-Oct-98	11.22	805.50	Insufficient water for parameters			—	—	—	4.28
	4	13-Apr-99	9.69	807.03	12.70	6.96	0.566	1.0	-81.1	0.08	1.81
	5	11-Oct-99	Dry	—	—	—	—	—	—	—	—
	6	24-Apr-00	BTP	—	13.80	6.75	0.937	29.0	-123.9	ERR	3.40
	7	19-Oct-00	BTP	—	19.10	6.85	1.000	1.0	-83.4	5.30	5.10
	8	17-Apr-01	BTP	—	9.90	6.44	0.732	18.0	149.0	1.99	5.10
	9	10-Oct-01	BTP	—	20.38	6.58	2.045	4.1	-97.0	4.24	5.88
	10	18-Apr-02	BTP	—	15.80	6.86	0.897	8.3	-137.0	1.13	4.94
	11	09-Oct-02	BTP	—	19.34	6.91	0.821	2.9	-113.0	0.14	5.98
	12	16-Apr-03	BTP	—	13.90	6.96	0.976	0.0	-193.0	0.00	3.83
	13	02-Oct-03	BTP	—	19.06	6.92	1.110	0.0	-157.0	0.58	3.24
	14	15-Apr-04	8.70	808.02	12.89	6.83	0.974	0.0	-139.0	1.94	3.00
	15	07-Oct-04	BTP	—	19.28	7.06	1.010	18.4	-173.0	7.57	4.20
<b>P18-2</b> (MP Elev.: ft.MSL) 820.04 <sup>(a)</sup> 817.91 <sup>(b)</sup>	Baseline	16-May-97	13.67	806.37	12.00	6.73	0.881	6.7	-85.0	1.96	5.10
	1	21-Oct-97	Samples Not Collected — Well Dry			—	—	—	—	—	—
	2	29-Apr-98	BTP	—	10.90	6.58	1.130	9.0	-234.9	0.14	19.0
	3	16-Oct-98	BTP	—	16.80	6.21	1.050	7.0	-73.6	0.45	6.50
	4	13-Apr-99	BTP	—	11.70	8.10	1.020	3.0	-84.8	3.05	3.47
	5	11-Oct-99	Samples Not Collected — Well Dry			—	—	—	—	—	—
	6	24-Apr-00	BTP	—	12.20	6.82	1.150	21.0	-120.1	1.73	6.04
	7	19-Oct-00	BTP	—	Insufficient water for parameters			—	—	—	4.65
	8	17-Apr-01	12.10	805.81	10.60	6.40	1.340	60.0	708.7	ERR	5.09
	9	10-Oct-01	BTP	—	19.15	6.26	2.452	4.7	-66.5	7.24	12.76
	10	18-Apr-02	BTP	—	11.70	6.97	1.210	5.8	-41.0	1.88	5.02
	11	09-Oct-02	BTP	—	19.20	6.64	1.210	1.1	-79.0	0.78	12.90
	12	16-Apr-03	BTP	—	11.30	6.49	1.250	21.4	-94.0	0.00	7.76
	13	02-Oct-03	Samples Not Collected — Well Dry			—	—	—	—	—	—
	14	15-Apr-04	9.84	808.07	10.64	6.71	0.930	0.0	-116.0	2.37	6.48
	15	07-Oct-04	11.81	806.10	20.36	6.69	1.190	0.0	-128.0	0.00	>13.2

**Table 5-1**  
**OU2 Round 15 Groundwater Monitoring Field Parameters**  
**Wright-Patterson AFB, Ohio**  
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Well Number	Sampling Round	Date Sampled	Static Depth to Water (ft, TOC)	Water Level Elevation (ft, MSL)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Ferrous Iron (mg/L)
<b>Wells Sampled Periodically</b>											
<b>04-606-M</b> (MP Elev.; ft,MSL) 820.18	13	02-Oct-03	9.25	810.93	15.20	7.07	0.566	2.0	-148.0	0.00	2.14
<b>MW11-1</b> (MP Elev.; ft,MSL) 821.33	13	02-Oct-03	9.75	811.58	16.51	6.96	0.495	18.7	25.0	3.37	9.75
<b>NEA-MW20-1D</b> (MP Elev.; ft,MSL) 819.37	15	07-Oct-04	9.90	809.47	17.00	7.05	0.817	3.1	30.0	2.82	0.00
<b>NEA-MW21-2D</b> (MP Elev.; ft,MSL) 818.92	15	07-Oct-04	12.05	806.87	15.64	7.06	0.796	0.0	50.0	1.80	0.00
<b>NEA-MW22-3S</b> (MP Elev.; ft,MSL) 819.48 <sup>(a)</sup> 817.87 <sup>(b)</sup>	Baseline	21-May-97	9.00	808.87	11.20	7.22	0.813	15.8	8.0	3.37	0.51
	14	16-Apr-04	5.51	812.36	11.18	6.75	0.856	210.0	90.0	3.31	>13.32
<b>NEA-MW23-2S</b> (MP Elev.; ft,MSL) 818.06 <sup>(a)</sup> 816.50 <sup>(b)</sup>	2 <sup>(1)</sup>	16-Apr-98	8.50	809.56	10.30	7.14	0.712	0.0	-44.5	4.78	NS
	4 <sup>(1)</sup>	23-Apr-99	8.42	809.64	14.70	7.10	0.781	2.0	207.5	1.94	NS
	6 <sup>(1)</sup>	20-Apr-00	6.94	809.56	11.90	7.34	1.250	0.0	128.3	3.90	NS
	8 <sup>(1)</sup>	17-Apr-01	7.75	808.75	9.70	6.88	0.796	0.0	67.0	2.46	NS
	10 <sup>(1)</sup>	18-Apr-02	7.32	809.18	15.70	7.10	0.915	17.2	-16.0	3.27	NS
	11	09-Oct-02	8.51	807.99	18.51	7.19	0.800	2.9	38.0	1.49	0.00
	13	02-Oct-03	6.67	809.83	17.78	7.01	0.950	22.3	-47.0	0.67	0.00
<b>NEA-MW24-2S</b> (MP Elev.; ft,MSL) 819.11	2 <sup>(1)</sup>	14-Apr-98	10.92	808.19	11.70	7.20	0.910	0.0	175.1	5.81	NS
	4 <sup>(1)</sup>	23-Apr-99	9.65	809.46	14.20	7.02	0.920	17.0	149.3	4.41	NS
	6 <sup>(1)</sup>	20-Apr-00	9.96	809.15	12.70	7.26	1.350	22.0	43.7	7.24	NS
	8 <sup>(1)</sup>	17-Apr-01	10.85	808.26	10.00	6.81	0.940	14.0	88.2	13.17	NS
	10 <sup>(1)</sup>	18-Apr-02	9.48	809.63	25.80	7.43	1.060	40.9	267.0	3.66	NS
	11	10-Oct-02	9.93	809.18	15.83	6.96	1.040	14.8	60.0	4.40	0.00
<b>NEA-MW25-1D</b> (MP Elev.; ft,MSL) 815.38 <sup>(b)</sup>	8	16-Apr-01	11.20	804.18	12.30	7.06	0.807	2.0	-103.8	0.17	1.16
<b>NEA-MW25-2I</b> (MP Elev.; ft,MSL) 815.52 <sup>(b)</sup>	8	16-Apr-01	11.38	804.14	12.30	6.93	0.807	8.0	-123	0.97	1.75
<b>NEA-MW25-3S</b> (MP Elev.; ft,MSL) 815.20 <sup>(b)</sup>	6	25-Apr-00	10.25	804.95	12.80	7.05	1.190	20.0	4.8	2.79	0.00
<b>OW-6</b> (MP Elev.; ft,MSL) 816.7	6	19-Apr-00	10.55	806.15	12.70	7.14	1.310	22.0	52.5	11.67	0.18
	11	09-Oct-02	10.54	806.16	19.22	7.22	1.060	0.0	-95.0	2.93	0.97

<sup>(1)</sup> - Wells NEA-MW23-2S and NEA-MW24-2S are normally sampled annually for only metals under the LTM program.

This table presents field parameters taken during previous annual metal sampling events for comparison.

MP - Monitoring point  
BTP - Below top of pump  
DO - Dissolved Oxygen  
NA - Not available  
NR - No reading  
NS - Not sampled  
<sup>(a)</sup> - MP Elevation prior to October 1999.  
<sup>(b)</sup> - MP Elevation after flush-mounting (Oct 1999).

mg/L - milligrams per liter  
ft, TOC - feet below top of casing  
ft, MSL - feet, ref. Mean sea level  
C° - Degrees Celsius  
SU - Standard Units  
ORP - Oxygen Reduction Potential  
\* - Iron measurements were taken on 10/19/00.  
\*\* - Well monument was incorrectly tagged in the field (MW28-4I).  
Actual well (MW28-5S) was sampled in December 2000 for Round 7.  
ERR - Equipment error  
NTU - Nephelometric turbidity units  
mS/cm - microSeimen per centimeter  
mV - millivolts

**Table 5-2**  
**Summary of OU2 Round 15 and Historical Groundwater Analytical Results**  
**Wright-Patterson AFB, Ohio**  
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WELL NUMBER	SAMPLING ROUND	SAMPLE DATE	Ethane (mg/L)	Ethene (mg/L)	Methane (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	Sulfate (mg/L)	Nitrate (mg/L)
<b>Wells Sampled Semi-Annually</b>												
04-016-M	--	02-Sep-88	NA	NA	NA	63	ND	ND	ND	63	NA	NA
	--	12-Aug-91	NA	NA	NA	440	NA	ND	ND	440	0.58	0.142
	Baseline	21-May-97	0.002	ND	19.4	8.8	ND	ND	ND	8.8	ND	ND
	1	22-Oct-97	ND	ND	25.6	12	5.6	6.6	9.7	33.9	ND	ND
	2	28-Apr-98	0.001	ND	15.4	6.6	12	50	3.4	72	ND	ND
	3	15-Oct-98	0.002	ND	12.7	8.6	6.5	31	ND	46.1	ND	ND
	4	13-Apr-99	0.001	ND	9.59	2.6	1.2	28	ND	31.8	ND	ND
	5	11-Oct-99	0.002	ND	14.7	14	6.1	67	4.0	91.1	ND	ND
	6	25-Apr-00	0.002	ND	12.9	5.4*	3.0*	ND	37	45.4*	ND	ND
	7	19-Oct-00	0.00083	ND	7.0 DB	9.2	0.77 J	ND	ND	9.97 J	ND	ND
	8	17-Apr-01	0.0011	ND	4.1 DB	3.8	0.68 J	1.4	3.9	9.78 J	5.2	ND
	9	10-Oct-01	0.00083	ND	8.3 DB	7.2 D	0.42 JD	0.81 JD	1.4 JD	9.83 JD	ND	ND
	9	Duplicate	0.00074	ND	7.9 DB	7.4 D	0.43 JD	0.74 JD	1.4 JD	9.97 JD	ND	ND
	10	18-Apr-02	0.00056	ND	7.3 DB	8.8 D	ND	1.8 JD	0.88 JD	11.28 JD	ND	ND
	11	09-Oct-02	ND	ND	1.3 D	5.2 D	ND	ND	ND	5.2 D	ND	ND
04-518-M	Duplicate	ND	ND	1.2 D	5.5	ND	ND	ND	ND	5.5	ND	ND
	12	16-Apr-03	ND	ND	1.1 D	2.7 D	ND	ND	ND	2.7 D	ND	ND
	12	Duplicate	ND	ND	0.25 D	2.7 D	ND	ND	ND	2.7 D	ND	ND
	13	02-Oct-03	ND	ND	2.0 D	ND	ND	ND	ND	ND	ND	ND
	13	Duplicate	0.009 JD	0.0069 JD	2.5 D	ND	ND	ND	ND	ND	ND	ND
	14	16-Apr-04	ND	ND	1.3 D	0.58 J	ND	ND	ND	0.58 J	ND	ND
	14	Duplicate	ND	ND	1.0 D	0.55 J	ND	ND	ND	0.55 J	ND	ND
	15	7-Oct-04	0.0014 JD	ND	1.9 D	ND	0.36 J	ND	ND	0.36 J	ND	ND
	--	06-Sep-88	NA	NA	NA	560	2500	1500	5700	10260	NA	NA
	--	Duplicate	NA	NA	NA	2600	13000	8300	36000	59900	NA	NA
	--	09-Aug-91	NA	NA	NA	27	ND	100	46	173	0.11	0.094
	Baseline	13-May-97	ND	ND	7.67	160	5.6	290	23	478.6	ND	ND
	1	21-Oct-97	ND	ND	12.6	42	2.3	45	12	101.3	ND	ND
	2	29-Apr-98	ND	ND	13.4	100	17	170	ND	287	ND	ND
	3	15-Oct-98	ND	ND	9.99	52	43	41	12	148	ND	ND
	4	13-Apr-99	ND	ND	14.2	120	12	680	15	827	ND	ND
	4	Duplicate	ND	ND	16.3	250	25	460	ND	735	ND	ND
	5	11-Oct-99	ND	ND	11.8	16	13	6.8	5.0	40.8	ND	ND
	6	24-Apr-00	ND	ND	12.8	160	ND	64	ND	224	ND**	ND**
	7	17-Oct-00	ND	ND	4.7 DB	20	ND	ND	ND	20	ND	ND
	8	18-Apr-01	ND	ND	5.0 DB	23	ND	5.3 J	ND	28.3 J	ND	ND
	9	11-Oct-01	ND	ND	7.3 DB	20 D	ND	ND	ND	20 D	ND	ND
	10	17-Apr-02	ND	ND	5.2 DB	13 D	ND	1.6 JD	ND	14.6 JD	ND	ND
	11	10-Oct-02	ND	ND	1.2 D	4.5 JD	ND	ND	ND	4.5 JD	ND	ND
	12	17-Apr-03	ND	ND	1.0 D	ND	ND	ND	ND	ND	ND	ND
	13	02-Oct-03	Well Abandoned		--	--	--	--	--	--	--	--
NEA-MW20-2S	--	16-Dec-92	NA	NA	NA	75	ND	70	75	220	9.78	ND
	--	05-May-93	NA	NA	NA	39	ND	46	46	131	1600	ND
	--	08-Sep-93	NA	NA	NA	14	1.0	31	14	60	1.09	ND
	Baseline	22-May-97	ND	ND	21.3	46	ND	4.6	1.1	51.7	ND	ND
	1	21-Oct-97	ND	ND	24.4	45	7.1	6.8	10	68.9	ND	ND
	2	17-Apr-98	ND	ND	32.2	39	ND	2.7	4.1	45.8	ND	ND
	3	15-Oct-98	ND	ND	16	22	ND	ND	ND	22	ND	ND
	4	13-Apr-99	0.027	ND	25.5	37	ND	ND	ND	37	ND	ND
	5	11-Oct-99	0.001	ND	21.7	56	5.9	3.4	ND	65.3	ND	ND
	5	Duplicate	0.002	ND	21.8	54	6.5	3.6	ND	64.1	ND	ND
	6	20-Apr-00	ND <sup>A</sup>	ND <sup>A</sup>	30.3 <sup>A</sup>	76	2.3*	ND	3.2*	81.5*	ND	ND
	7	17-Oct-00	ND	ND	6.8 DB	46	ND	ND	ND	46	2.4	ND
	7	Duplicate	ND	ND	6.2 DB	46	ND	ND	ND	46	2.0	ND
	8	19-Apr-01	ND	ND	6.8 DB	35	ND	ND	ND	35	ND	ND
	8	Duplicate	ND	ND	5.6 DB	38	ND	ND	ND	38	ND	ND
	9	17-Oct-01	ND	ND	6.3 DB	39 D	ND	ND	ND	39 D	ND	ND
	10	16-Apr-02	ND	ND	6.8 DB	41 D	ND	0.56 JD	ND	41.56 JD	ND	ND
	10	Duplicate	ND	ND	7.6 DB	43 D	0.38 JD	0.50 JD	ND	43.88 JD	ND	ND
	11	09-Oct-02	ND	ND	1.2 D	26 D	ND	ND	ND	26 D	ND	ND
	12	17-Apr-03	ND	ND	1.3 D	23 D	ND	ND	ND	23 D	ND	ND
	12	Duplicate	ND	ND	1.1 D	22 D	ND	ND	ND	22 D	ND	ND
	13	02-Oct-03	ND	ND	1.2 D	13 D	ND	ND	ND	13 D	ND	ND
	14	15-Apr-04	ND	ND	1.2 D	9.3 D	ND	ND	ND	9.3 D	5.3	ND
	14	Duplicate	ND	ND	0.98 D	8.9 D	ND	ND	ND	8.9 D	4.9	ND
	15	7-Oct-04	ND	ND	1.5 D	23 D	ND	ND	1.5 JD	24.5 JD	1.0	ND
	15	Duplicate	ND	ND	1.5 D	24 D	ND	ND	1.6 JD	25.6 JD	ND	ND
NEA-MW21-3S	--	16-Dec-92	NA	NA	NA	77	54	82	150 J	363 J	1.05 J	ND
	4	13-Apr-99	0.003	ND	13	240	ND	110	140	490	ND	ND
	4	Duplicate	0.002	ND	13.9	200	ND	92	130	422	ND	ND
	5	11-Oct-99	0.002	ND	14.6	230	10	110	70	420	ND	ND
	6	24-Apr-00	0.005	ND	25.5	300	ND	110	120	530	ND	ND
	6	Duplicate	0.005	ND	23.5	290	ND	120	110	520	ND	ND
	7	19-Oct-00	0.00067	ND	5.8 DB	290	ND	260	320	870	ND	ND
	7	Duplicate	0.00058	ND	4.7 DB	290	ND	250	330	870	ND	ND
	8	18-Apr-01	0.00092	ND	6.4 DB	49	ND	32	28	109	ND	ND
	9	17-Oct-01	0.00054	ND	4.5 DB	46 D	7.4 D	45 D	59 D	157.4 D	ND	ND
	10	16-Apr-02	0.00036 J	ND	3.0 DB	25 D	0.55 JD	47 D	28 D	100.55 JD	ND	ND
	11	09-Oct-02	Not Sampled - Well not accessible, remediation system in place.									
	12	23-Apr-03	ND	ND	1.1 D	7.5 D	ND	3.4 JD	ND	10.9 JD	1.7	ND
	13	02-Oct-03	Not Sampled - Well not accessible, remediation system in place.									
	14	15-Apr-04	ND	ND	0.19 D	3.9 D	ND	6.1 D	ND	10.0 D	ND	ND
	15	7-Oct-04	ND	ND	1.1 D	1.3 JD	ND	1.4 JD	1.1 JD	3.8 JD	ND	ND

**Table 5-2**  
**Summary of OU2 Round 15 and Historical Groundwater Analytical Results**  
**Wright-Patterson AFB, Ohio**  
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WELL NUMBER	SAMPLING ROUND	SAMPLE DATE	Ethane (mg/L)	Ethene (mg/L)	Methane (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	Sulfate (mg/L)	Nitrate (mg/L)
NEA-MW26-3S	--	11-Oct-92	NA	NA	NA	ND	320	12000	5700	18020	ND	ND
	--	26-Oct-92	NA	NA	NA	ND	55	200	150	405	ND	ND
	--	06-Dec-92	NA	NA	NA	ND	ND	ND	ND	ND	61.3	ND
	--	24-Apr-93	NA	NA	NA	ND	ND	ND	ND	ND	101	ND
	--	14-May-93	NA	NA	NA	ND	ND	ND	ND	ND	37	ND
	Baseline	14-May-97	ND	ND	0.109	ND	ND	ND	ND	ND	ND	ND
	6	24-Apr-00	ND	ND	0.002	ND	ND	ND	ND	ND	102**	ND**
	7	17-Oct-00	ND	ND	0.026 B	ND	0.22 J	ND	ND	0.22 J	54.5	ND
	8	17-Apr-01	ND	ND	0.038 B	ND	ND	ND	ND	ND	57.5	ND
	9	15-Oct-01	ND	ND	0.110 DB	ND	ND	ND	ND	ND	42.4	ND
	10	18-Apr-02	ND	ND	0.063 B	ND	ND	ND	ND	ND	45.5	ND
	11	09-Oct-02	ND	ND	0.099	ND	ND	ND	ND	ND	39	ND
	12	09-Apr-03	ND	ND	0.014	ND	ND	ND	ND	ND	52.1	ND
	13	02-Oct-03	ND	ND	0.066	ND	ND	ND	ND	ND	34.6	ND
	14	16-Apr-04	ND	ND	0.026	ND	ND	ND	ND	ND	35.7	0.56
	15	7-Oct-04	ND	ND	0.058	ND	ND	ND	ND	ND	39.6	ND
NEA-MW28-4I	--	08-Dec-92	NA	NA	NA	44	ND	ND	ND	44	0.86 J	ND
	--	21-Apr-93	NA	NA	NA	23	0.8 J	ND	ND	23.8 J	0.636 J	ND
	--	09-Sep-93	NA	NA	NA	1.0 J	ND	ND	ND	1.0 J	1.37 J	0.0674 J
	Baseline	14-May-97	ND	ND	7.27	ND	ND	ND	ND	ND	ND	ND
	1	20-Oct-97	ND	ND	4.41	ND	ND	ND	ND	ND	4.65	ND
	2	28-Apr-98	ND	ND	13.6	ND	ND	ND	ND	ND	ND	ND
	3	15-Oct-98	ND	ND	1.91	ND	ND	ND	ND	ND	2.0	ND
	4	13-Apr-99	ND	ND	6.9	ND	ND	ND	ND	ND	3.6	ND
	5	11-Oct-99	ND	ND	4.4	ND	ND	ND	ND	ND	1.9	ND
	6	24-Apr-00	0.001	ND	11.1	ND	ND	ND	ND	ND	ND	ND
	6	Duplicate	0.001	ND	13.2	ND	ND	ND	ND	ND	ND	ND
	7 <sup>B</sup>	17-Oct-00	ND	ND	1.9 DB	ND	0.21 J	ND	ND	0.21 J	ND	ND
NEA-MW28-5S	--	08-Dec-92	NA	NA	NA	120	ND	ND	ND	120	1.06 J	ND
	--	21-Apr-93	NA	NA	NA	500	ND	ND	ND	500	1.77 J	ND
	--	10-Sep-93	NA	NA	NA	250	ND	1.0	ND	251	0.675 J	ND
	7 <sup>B</sup>	08-Dec-00	0.00029 J	ND	5.4 DB	0.46 J	ND	ND	ND	0.46 J	ND	ND
	7 <sup>B</sup>	Duplicate	0.00029 J	ND	5.5 DB	0.28 J	ND	ND	ND	0.28 J	ND	ND
	8	17-Apr-01	0.00027 J	ND	4.0 D	ND	ND	ND	ND	ND	1.7	ND
	9	15-Oct-01	ND	ND	3.4 DB	ND	ND	ND	ND	ND	ND	ND
	9	Duplicate	ND	ND	3.5 DB	ND	ND	ND	ND	ND	ND	ND
	10	16-Apr-02	0.00019 J	ND	3.2 DB	ND	ND	ND	ND	ND	ND	ND
	11	10-Oct-02	ND	ND	1.1 D	ND	ND	ND	ND	ND	3.8	ND
	11	Duplicate	ND	ND	1.1 D	ND	ND	ND	ND	ND	4.0	ND
	12	09-Apr-03	ND	ND	0.84 D	ND	ND	ND	ND	ND	3.4	ND
	13	02-Oct-03	ND	ND	1.5 D	ND	0.26 J	ND	ND	0.26 J	4.6	ND
	14	16-Apr-04	ND	ND	1.0 D	0.30 J	ND	ND	ND	0.30 J	8.3	ND
	15	7-Oct-04	ND	ND	1.1 D	ND	ND	ND	ND	ND	7.0	ND
OW-1	Baseline	14-May-97	ND	ND	11.7	430	ND	1.3	ND	431.3	ND	ND
	1	20-Oct-97	ND	ND	13.2	400	8.5	1.8	8.3	418.6	ND	ND
	2	28-Apr-98	ND	ND	11.2	460	28	ND	ND	488	ND	ND
	3	15-Oct-98	0.002	ND	12.9	160	7.1	ND	ND	167.1	ND	ND
	4	13-Apr-99	ND	ND	14	150	19	11	11	191	ND	ND
	5	13-Oct-99	0.001	ND	8.29	13	12	6.8	3.6	35.4	ND	ND
	6	24-Apr-00	0.002	ND	12.8	13*	3.5	ND	4.8	21.3*	ND*	ND
	7	17-Oct-00	0.00035 J	ND	4.2 DB	ND	ND	ND	ND	ND	ND	ND
	8	16-Apr-01	0.00049 J	ND	5.6 DB	0.84 J	ND	ND	ND	0.84 J	1.3	ND
	8	Duplicate	0.00051	ND	5.6 DB	0.85 J	ND	ND	ND	0.85 J	1.2	ND
	9	15-Oct-01	0.00051	ND	4.5 DB	ND	ND	ND	ND	ND	ND	ND
	9	Duplicate	0.00059	ND	4.8 DB	ND	ND	ND	ND	ND	ND	ND
	10	16-Apr-02	0.00051	ND	5.1 DB	ND	ND	ND	ND	ND	ND	ND
	11	10-Oct-02	ND	ND	1.9 D	ND	ND	ND	ND	ND	ND	ND
	12	17-Apr-03	ND	ND	1.6 D	ND	ND	ND	ND	ND	ND	ND
	13	02-Oct-03	ND	ND	3.0 D	7.2 D	ND	ND	ND	7.2 D	ND	ND
	14	16-Apr-04	ND	ND	1.5 D	2.7 D	0.67 JD	ND	ND	3.37 JD	ND	ND
	15	7-Oct-04	ND	ND	2.4 D	0.89 JD	ND	ND	ND	0.89 JD	ND	ND
	15	Duplicate	ND	ND	2.8 D	0.98 JD	0.37 JD	ND	ND	1.35 JD	ND	ND
OW-2	Baseline	21-May-97	ND	ND	24.9	ND	ND	ND	ND	ND	1.0	0.5
	3	21-Oct-98	0.001	ND	14.9	ND	ND	ND	ND	ND	ND	ND
	3	Duplicate	0.002	ND	13.7	ND	5.1	ND	ND	5.1	ND	ND
	4	13-Apr-99	0.019	ND	20.5	ND	2.3	2.4	ND	4.7	ND	ND
	5	11-Oct-99	0.002	ND	21.1	2.4	7.7	2.6	1.5	14.2	ND	ND
	6	25-Apr-00	0.003	ND	23	ND	3.0*	ND	3.5*	6.5*	ND	ND
	7	19-Oct-00	0.0005	ND	7.3 DB	ND	ND	ND	ND	ND	ND	ND
	8	17-Apr-01	0.00048 J	ND	6.9 DB	ND	ND	ND	ND	ND	ND	ND
	9	10-Oct-01	0.00024 J	ND	9.3 DB	ND	ND	ND	ND	ND	ND	ND
	10	18-Apr-02	0.0003 J	ND	9.0 DB	ND	ND	ND	ND	ND	ND	ND
	10	Duplicate	0.0003 J	ND	8.7 DB	ND	ND	ND	ND	ND	ND	ND
	11	09-Oct-02	ND	ND	1.5 D	ND	ND	ND	ND	ND	ND	ND
	12	16-Apr-03	ND	ND	1.6 D	ND	ND	ND	ND	ND	ND	ND
	13	02-Oct-03	ND	ND	2.7 D	ND	ND	ND	ND	ND	ND	ND
	14	15-Apr-04	ND	ND	1.7 D	ND	ND	ND	ND	ND	ND	ND
	15	7-Oct-04	ND	ND	3.1 D	ND	ND	ND	ND	ND	ND	ND

**Table 5-2**  
**Summary of OU2 Round 15 and Historical Groundwater Analytical Results**  
**Wright-Patterson AFB, Ohio**  
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WELL NUMBER	SAMPLING ROUND	SAMPLE DATE	Ethane (mg/L)	Ethene (mg/L)	Methane (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	Sulfate (mg/L)	Nitrate (mg/L)
OW-3	Baseline	22-May-97	ND	ND	12.1	2.2	ND	ND	ND	2.2	ND	ND
	1	23-Oct-97	ND	ND	12.4	8.2	7.6	4.2	7.2	27.2	1.52	ND
	2	29-Apr-98	ND	ND	16.5	8.7	ND	7.1	2.6	18.4	ND	ND
	3	15-Oct-98	ND	ND	13.8	ND	ND	ND	ND	ND	ND	ND
	4	13-Apr-99	0.008	ND	15.9	10	13	6.2	7.3	36.5	ND	ND
	5	11-Oct-99	0.001	ND	10.1	7.0	11	5.9	6.0	29.9	ND	ND
	6	25-Apr-00	0.003	ND	21	8.8*	2.6*	ND	5.7*	15.1*	ND	ND
	7	19-Oct-00	0.00031 J	ND	4.5 DB	ND	ND	ND	ND	ND	ND	ND
	8	17-Apr-01	0.0007	ND	3.9 D	ND	ND	ND	ND	ND	1.0	ND
	9	10-Oct-01	0.00036 J	ND	4.6 DB	ND	ND	ND	ND	ND	ND	ND
	10	18-Apr-02	0.00054	ND	5.3 DB	ND	ND	ND	ND	ND	ND	ND
	11	09-Oct-02	ND	ND	1.0 D	ND	ND	ND	ND	ND	1.3	ND
	12	16-Apr-03	ND	ND	0.86 D	ND	ND	ND	ND	ND	ND	ND
	13	02-Oct-03	ND	ND	2.2 D	ND	ND	ND	ND	ND	ND	ND
	14	15-Apr-04	ND	ND	1.5 D	ND	ND	ND	ND	ND	ND	ND
	15	7-Oct-04	ND	ND	1.8 D	ND	ND	ND	ND	ND	ND	ND
OW-4	Baseline	27-May-97	ND	ND	19.5	ND	ND	ND	ND	ND	3.0	ND
	1	22-Oct-97	ND	ND	13.7	4.0	ND	ND	3.3	7.3	ND	ND
	2	29-Apr-98	ND	ND	12.6	ND	4.3	3.1	1.5	8.9	ND	ND
	3	15-Oct-98	0.001	ND	10.8	ND	1.0	1.2	ND	2.2	1.2	ND
	4	14-Apr-99	0.002	ND	9.91	ND	4.5	2.2	2.6	9.3	1.0	ND
	5	11-Oct-99	0.001	ND	10.8	ND	3.2	2.3	1.2	6.7	ND	ND
	6	25-Apr-00	0.004	ND	16.8	ND	1.2*	ND	1.3*	2.5*	7.0	ND
	7	19-Oct-00	0.00029 J	ND	4.3 DB	ND	ND	ND	ND	ND	1.5	ND
	8	17-Apr-01	0.00032 J	ND	3.4 D	ND	ND	ND	ND	ND	2.0	ND
	9	10-Oct-01	ND	ND	7.8 BD	ND	ND	ND	ND	ND	2.3	ND
	10	18-Apr-02	ND	ND	5.8 DB	ND	ND	ND	ND	ND	ND	ND
	11	09-Oct-02	ND	ND	1.1 D	ND	ND	ND	ND	ND	2.9	ND
	12	16-Apr-03	ND	ND	1.2 D	ND	ND	ND	ND	ND	ND	ND
	13	02-Oct-03	ND	ND	0.35 D	ND	ND	ND	ND	ND	7.3	ND
	14	15-Apr-04	ND	ND	0.12	ND	ND	ND	ND	ND	23.6	ND
	15	7-Oct-04	ND	ND	0.23	ND	ND	ND	ND	ND	42.8	ND
P18-1	--	12-Aug-91	NA	NA	NA	570	NA	54	280	904	0.24	0.107
	Baseline	16-May-97	ND	ND	11.5	5.5	ND	ND	ND	5.5	10	0.5
	1	20-Oct-97	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	2	29-Apr-98	ND	ND	7.27	15	13	7.4	11	46.4	ND	ND
	3	16-Oct-98	ND	ND	4.36	15	13	7.4	ND	35.4	ND	ND
	4	13-Apr-99	0.009	ND	17.3	4.6	13	7.1	20	44.7	ND	ND
	5	11-Oct-99	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	6	24-Apr-00	ND	ND	7.29	5.7*	ND	ND	ND	5.7*	ND	ND
	7	19-Oct-00	ND	ND	6.0 DB	ND	ND	ND	ND	ND	ND	ND
	8	17-Apr-01	ND	ND	3.6 D	ND	ND	ND	ND	ND	1.1	ND
	9	10-Oct-01	ND	ND	3.5 BD	ND	ND	ND	ND	ND	ND	ND
	10	18-Apr-02	ND	ND	2.8 DB	ND	ND	ND	ND	ND	ND	ND
	11	09-Oct-02	ND	ND	0.65 D	ND	ND	ND	ND	ND	ND	ND
	12	16-Apr-03	ND	ND	0.42 D	ND	ND	ND	ND	ND	ND	ND
	13	02-Oct-03	ND	ND	0.82 D	ND	ND	ND	ND	ND	ND	ND
	14	15-Apr-04	ND	ND	0.68 D	ND	ND	ND	ND	ND	ND	ND
	15	7-Oct-04	ND	ND	1.1 D	ND	ND	ND	ND	ND	ND	ND
P18-2	--	12-Aug-91	NA	NA	NA	1900	NA	450	490	2840	0.15	0.013
	Baseline	16-May-97	ND	ND	16.9	130	ND	43	ND	173	1.7	ND
	1	20-Oct-97	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	2	29-Apr-98	ND	ND	8.24	66	8.5	29	4.7	108.2	ND	1.0
	3	16-Oct-98	ND	ND	16.2	42	ND	ND	ND	42	ND	ND
	4	13-Apr-99	ND	ND	8.96	ND	ND	ND	ND	ND	ND	ND
	5	11-Oct-99	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	6	24-Apr-00	ND	ND	2.08	8.2*	ND	50	ND	58.2*	32.6**	ND**
	7	19-Oct-00	ND	ND	5.0 DB	ND	ND	ND	ND	ND	ND	ND
	8	17-Apr-01	ND	ND	1.9 D	1.0 J	ND	ND	ND	1.0 J	191	1.1
	9	10-Oct-01	ND	ND	8.2 DB	0.54 JD	ND	ND	ND	0.54 JD	1.2	ND
	10	18-Apr-02	ND	ND	3.6 DB	ND	ND	ND	ND	ND	25.9	ND
	11	09-Oct-02	ND	ND	1.4 D	ND	ND	ND	ND	ND	14.8	ND
	12	16-Apr-03	ND	ND	1.3 D	ND	ND	ND	ND	ND	5.2	ND
	13	02-Oct-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	14	15-Apr-04	ND	ND	2.2 D	ND	ND	ND	ND	ND	2.1	ND
	15	7-Oct-04	ND	ND	3.4 D	ND	ND	ND	1.2 JD	1.2 JD	ND	ND
<b>Wells Sampled Periodically</b>												
04-606-M	--	06-Sep-88	NA	NA	NA	ND	ND	ND	ND	ND	NA	NA
	13	02-Oct-03	ND	ND	0.00072	ND	ND	ND	ND	ND	110	ND
MW11-1	--	09-Aug-91	NA	NA	NA	ND	ND	ND	ND	ND	50 J	0.582 J
	13	02-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	53.3	0.71
	13	Duplicate	ND	ND	ND	ND	ND	ND	ND	ND	53.5	0.71
NEA-MW20-1D	--	09-Dec-92	NA	NA	NA	ND	ND	ND	ND	ND	75.5 J	2.12
	--	05-May-93	NA	NA	NA	ND	ND	ND	ND	ND	77.8 J	2.31
	--	08-Sep-93	NA	NA	NA	ND	ND	ND	ND	ND	77.2	2.09
	15	7-Oct-04	ND	ND	0.00022 J	ND	ND	ND	ND	ND	80	1.6
NEA-MW21-2D	--	09-Dec-92	NA	NA	NA	ND	ND	ND	ND	ND	79.6 J	2.02
	--	04-May-93	NA	NA	NA	ND	ND	ND	ND	ND	76.9 J	2.39 J
	--	09-Sep-93	NA	NA	NA	ND	ND	ND	ND	ND	75.6	2.37
	15	7-Oct-04	ND	ND	0.00019 J	ND	ND	ND	ND	ND	69.4	1.5

**Table 5-2**  
**Summary of OU2 Round 15 and Historical Groundwater Analytical Results**  
**Wright-Patterson AFB, Ohio**  
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WELL NUMBER	SAMPLING ROUND	SAMPLE DATE	Ethane (mg/L)	Ethene (mg/L)	Methane (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	Sulfate (mg/L)	Nitrate (mg/L)
NEA-MW22-3S	--	5-Dec-92	NA	NA	NA	3.0	ND	ND	ND	3.0	51.0	ND
	--	6-May-93	NA	NA	NA	ND	ND	ND	ND	ND	59.7	ND
	--	7-Sep-93	NA	NA	NA	ND	ND	ND	ND	ND	46.1	ND
	14	16-Apr-04	ND	ND	0.00031 J	ND	ND	ND	ND	ND	43.2	0.96
NEA-MW23-2S	--	05-Dec-92	NA	NA	NA	ND	ND	ND	ND	ND	21.5	ND
	--	24-Apr-93	NA	NA	NA	ND	ND	ND	ND	ND	33.8	0.0359
	--	01-Sep-93	NA	NA	NA	ND	ND	ND	ND	ND	7.02	0.062
	Baseline	16-May-97	ND	ND	0.017	ND	ND	ND	ND	ND	17.0	0.70
	11	09-Oct-02	ND	ND	0.0079	ND	ND	ND	ND	ND	4.9	ND
NEA-MW24-2S	--	08-Dec-92	NA	NA	NA	ND	ND	ND	ND	ND	71.6	2.18
	--	25-Apr-93	NA	NA	NA	ND	ND	ND	ND	ND	77.5	2.77
	--	01-Sep-93	NA	NA	NA	ND	ND	ND	ND	ND	83.1	2.42
	Baseline	23-May-97	ND	ND	ND	ND	ND	ND	ND	ND	66.5	2.00
	11	10-Oct-02	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS
NEA-MW25-1D	--	07-Dec-92	NA	NA	NA	ND	ND	ND	ND	ND	83.5	ND
	--	06-May-93	NA	NA	NA	ND	ND	ND	ND	ND	77.8	ND
	--	13-Sep-93	NA	NA	NA	ND	ND	ND	ND	ND	80.8	ND
	8	16-Apr-01	ND	ND	0.00047 JB	ND	ND	ND	ND	ND	74.2	ND
NEA-MW25-2I	--	07-Dec-92	NA	NA	NA	17	ND	ND	ND	17	ND	ND
	--	06-May-93	NA	NA	NA	2.0	ND	ND	ND	2.0	0.073 J	ND
	--	13-Sep-93	NA	NA	NA	0.7 J	0.6 J	ND	ND	1.3 J	ND	ND
	8	16-Apr-01	0.00048 J	ND	8.9 DB	ND	ND	ND	ND	ND	ND	ND
NEA-MW25-3S	--	07-Dec-92	NA	NA	NA	ND	ND	ND	ND	ND	0.634	ND
	--	06-May-93	NA	NA	NA	0.7	ND	ND	ND	0.7	3.87	ND
	--	13-Sep-93	NA	NA	NA	ND	ND	ND	ND	ND	0.409	ND
	Baseline	23-May-97	0.001U	0.001U	12.3	ND	ND	ND	ND	ND	ND	ND
	6	25-Apr-00	ND	ND	0.006	ND	ND	ND	ND	ND	2.7	ND
OW-6	Baseline	27-May-97	0.001U	0.001U	0.291	ND	ND	ND	ND	ND	23	ND
	6	19-Apr-00	ND	ND	ND	ND	ND	ND	ND	ND	30.8	ND
	11	09-Oct-02	ND	ND	0.069	ND	ND	ND	ND	ND	24	ND

<sup>A</sup> - Well NEA-MW20-2S was sampled for ethane, ethene and methane on 4/25/00

<sup>B</sup> - Well monument was incorrectly tagged in the field (MW28-4I). Actual well (MW28-5S) was sampled in December 2000 for Round 7

\* - Quantitation suspect due to hydrocarbon interference

\*\* - Reporting limit was raised due to matrix interference

µg/L - Micrograms per Liter (ppb)

mg/L - Milligrams per Liter (ppm)

NA - Not Analyzed

ND - Not Detected

D - Result obtained from the analysis of a dilution

J - Estimated Result. Result between reporting limit and detection limit

B - Method blank contamination

U - Undetected at the detection limit

**Table 5-3**  
**Summary of OU2 Round 15 and Historical**  
**Soil Gas Analytical Results**  
**Wright-Patterson AFB, Ohio**  
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WPAFB  
Final  
LTM Report: October 2004  
Chapter 5  
September 2, 2005

Sample Location	Date Sampled	Sample Round	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	Total BTEX (ppb)	Total Volatile Hydrocarbons (ppm)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)
OU2-SV01	07-May-97	Baseline	ND	ND	ND	ND	ND	172	ND	25.1	ND
	27-Oct-97	1	ND	ND	ND	ND	ND	ND	ND	16.5	1.03
	22-Apr-98	2	ND	ND	ND	ND	ND	36.6	ND	15.3	0.56
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	ND	ND	ND	ND	ND	23	0.8
	08-Apr-99	4	ND	ND	ND	ND	ND	ND	ND	16.95	0.5
	06-Oct-99	5	ND	ND	2.0	ND	2.0	79.8	ND	18.1	1.2
	20-Apr-00	6	ND	ND	ND	ND	ND	145	ND	15	0.65
	03-Nov-00	7	ND	ND	ND	ND	ND	ND	ND	18.1	1.3
	Duplicate	7	ND	ND	ND	ND	ND	ND	ND	18	1.3
	01-May-01	8 <sup>(4)</sup>	0.022 J	0.085	0.083 J	0.21	0.40 J	32 B	0.00014 J	20	1.1
	22-Oct-01	9	ND	0.083	0.086 J	0.43	0.60 J	36 B	0.0077 B	18	2.8
	18-Apr-02	10	ND	1.90	0.90	3.03	5.83	280	0.0021 B	22	0.044
	30-Sep-02	11	1.9 D	5.3 D	4.1 D	14.2 D	25.5 D	1,450 D	0.019	22	1.1
	22-Apr-03	12	Sample could not be collected - water in line					--	--	--	--
	23-Sep-03	13	Sample could not be collected - water in line					--	--	--	--
	06-Apr-04	14	Sample could not be collected - water in line					--	--	--	--
	25-Oct-04	15	ND	0.34	0.18	0.296 J	0.816 J	46	0.00068	20	1.3
OU2-SV02	07-May-97	Baseline	ND	ND	ND	ND	ND	ND	2.1	24.1	ND
	27-Oct-97	1	ND	ND	ND	ND	ND	ND	ND	16.4	1.36
	22-Apr-98	2	ND	ND	ND	ND	ND	ND	ND	12.9	1.38
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	ND	ND	ND	ND	ND	2.6	1.8
	08-Apr-99	4	1.35	ND	ND	ND	1.35	ND	ND	3.37	1.52
	06-Oct-99	5	1.6	ND	4.0	ND	5.58	59	ND	18	0.59
	20-Apr-00	6	4.39	ND	9.02	6.87	20.3	487	ND	13	0.97
	03-Nov-00	7	ND	ND	ND	ND	ND	ND	ND	18.3	1.7
	02-May-01	8 <sup>(4)</sup>	0.034 J	0.2	0.32	0.89	1,444 J	99	0.00019 J	17	3.1
	22-Oct-01	9	Restricted area - no access due to heightened Base security					--	--	--	--
	18-Apr-02	10	Sample could not be collected - water in line					--	--	--	--
	30-Sep-02	11	0.14	0.44	0.42	1.48	2.48	159	0.00046	19	1.9
	22-Apr-03	12	Sample could not be collected - water in line					--	--	--	--
	23-Sep-03	13	Sample could not be collected - water in line					--	--	--	--
	07-Apr-04	14	Sample could not be collected - water in line					--	--	--	--
	25-Oct-04	15	0.14	0.23	0.17	0.74	1.28	81	0.011	19	3.1
OU2-SV03	07-May-97	Baseline	ND	ND	ND	3.58	3.58	630	11.1	15.8	ND
	27-Oct-97	1	53.5	32.5	11.3	21.7	119	1,673	1.22	2.77	8.6
	22-Apr-98	2	212	112	37.7	34	395.7	4,540	1.41	3.18	6.81
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	11	8.6	19.6	2,760	5.1	2.6	10
	08-Apr-99	4	9.57 <sup>(2)</sup>	2.79	4.43	ND	16.79	4,351	1.1	4.85	5.0
	06-Oct-99	5	ND	14.5	47.7	120	182.2	8,300	2.7	6.4	8.24
	20-Apr-00	6	ND	15.1	71.9	69	156	11,040 D	2.7	3.5	11
	Duplicate	6	ND	14.9	69.2	71	155	9,960 D	2.7	4.2	10
	03-Nov-00	7	610	433	47	95.7	1,185.7	50,880	5.2	4.4	9.3
	Duplicate	7	575	361	19.6	36.9	992.5	49,380	5.2	4.7	9.2
	01-May-01	8 <sup>(4)</sup>	7.5 D	24 D	14 D	37 JD	82.5 JD	9,300 D	0.45	2.6	14
	Duplicate	8 <sup>(4)</sup>	11 D	27 D	17 D	45.8 D	100.8 D	9,900 D	0.41	2.5	14
	22-Oct-01	9	ND	31 D	17 D	39.9 JD	87.9 JD	13,000 DB	7.7 B	1.7	10
	Duplicate	9	ND	30 D	18 D	42.7 JD	90.7 JD	13,200 DB	7.6 B	1.6	10
	18-Apr-02	10	ND	0.16	0.18	0.67	1.01	77	0.0024 B	22	0.12
	01-Oct-02	11	9.6 D	22 D	13 D	35.8 D	80.4 D	6,600 D	4.9	7.1	6.1
	22-Apr-03	12	Sample could not be collected - water in line					--	--	--	--
	23-Sep-03	13	Sample could not be collected - water in line					--	--	--	--
	06-Apr-04	14	Sample could not be collected - water in line					--	--	--	--
	25-Oct-04	15	9.1	7.1	4.7	13.3	34.2	2,200	2.9	2.1	9.5
OU2-SV04	07-May-97	Baseline	ND	ND	ND	5.51	5.51	453	ND	22.6	ND
	27-Oct-97	1	230	160	60.6	67.7	518.3	6,851	ND	10.2	3.47
	22-Apr-98	2	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	8.6	4.9	13.5	1,600	0.055	16	4.3
	08-Apr-99	4	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06-Oct-99	5	ND	40.6	ND	44.6	85.2	2,780	ND	12.6	4.1
	20-Apr-00	6	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03-Nov-00	7	49.6	78.7	4.4	13.7	146.4	2,990	0.5	10.2	5.3
	01-May-01	8 <sup>(4)</sup>	ND	0.12	0.052 J	0.093	0.265 J	30 B	0.0094	22	0.43
	22-Oct-01	9	Point buried during construction activities					--	--	--	--



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Sample Location	Date Sampled	Sample Round	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	Total BTEX (ppb)	Total Volatile Hydrocarbons (ppm)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)
OU2-SV05	07-May-97	Baseline	ND	ND	ND	8.49	8.49	4,420	5.08	10.7	12.6
	27-Oct-97	1	890	146	49.7	29.3	1,115	17,244	19.7	3.02	4.66
	22-Apr-98	2	2,490	275	90.7	66.5	2,922.2	29,200	19.4	2.64	3.01
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	6.0	ND	6.0	5,050	9.8	2.8	7.5
	Duplicate	3 <sup>(1)</sup>	ND	ND	24	8.1	32.1	6,740	9.1	10	5.0
	08-Apr-99	4	154	8.17	19.3	ND	181.47	20,986	8.35	4.0	3.45
	06-Oct-99	5	ND	ND	249	105	354	34,900	5.1	7.55	4.65
	20-Apr-00	6	ND	23.7	119	113	255.7	24,600 D	14	3.6	4.2
	03-Nov-00	7	Point destroyed during construction activities.					—	—	—	—
OU2-SV06	07-May-97	Baseline	ND	ND	ND	93.9	93.9	9,480	4.66	3.8	38.9
	27-Oct-97	1	528	216	60.4	39.8	844.2	19,209	34.6	6.47	0.76
	22-Apr-98	2	1,250	528	157	175	2,110	33,200	26.4	2.42	0.75
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	27	ND	27	11,100	38	2.7	2.0
	08-Apr-99	4	374 <sup>(2)</sup>	59.5	39.6	14.9	488	35,119	7.7	2.9	0.57
	06-Oct-99	5	2,060	2,410	849	221	5,540	66,600	20	3.1	1.5
	20-Apr-00	6	ND	66.1	106	89.4	262	24,050 D	25 D	3.5	1.0
	03-Nov-00	7	1,630	708	26.4	48.1	2,412.5	NA	27.2 D	4.7	1.0
	01-May-01	8 <sup>(4)</sup>	91 D	94 D	40 D	92 D	317 D	44,000 D	33	1.8	1.1
	22-Oct-01	9	35 D	82 D	39 D	136 D	292 D	46,000 BD	27 B	1.3	1.3
	Duplicate	9	25 D	78 D	32 D	105 D	240 D	40,000 BD	27 B	1.3	1.3
	18-Apr-02	10	Sample could not be collected - water in line					—	—	—	—
	30-Sep-02	11	69 D	68 D	25 D	61 JD	223 JD	34,000 D	36	4.1	2.0
	22-Apr-03	12	50 D	97 D	21 D	60.2 D	228.2 D	29,000 BD	32	1.6	1.5
	23-Sep-03	13	71 D	79 D	28 D	75 D	253 D	32,000 D	37	5.6	2.1
	06-Apr-04	14	Sample could not be collected - water in line					—	—	—	—
	25-Oct-04	15	170 D	110 D	44 D	129.7 D	453.7 D	36,000 BD	48	1.4	2.0
	Duplicate	15	160 D	110 D	41 D	121 D	432 D	31,000 D	47	1.7	2.0
OU2-SV07	07-May-97	Baseline	ND	ND	ND	ND	ND	119	2.06	22.2	ND
	27-Oct-97	1	44.3	70.9	28.2	15.8	159.2	3,426	12.3	2.33	4.61
	22-Apr-98	2	112	13.7	66.9	49.8	242.4	5,090	5.02	2.66	3.47
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	12	ND	12	2,830	8.9	2.7	6.0
	08-Apr-99	4	ND	17.2	11.6	28.5	57.3	4,395	5.31	3.45	4.28
	06-Oct-99	5	117	36.6	64.4	68.8	286.5	3,710	4.5	8.2	3.9
	Duplicate	5	VOCs not analyzed because the sample broke during analysis.					—	5.2	6.42	5.0
	20-Apr-00	6	98.2	25.5	52.9	33.2	210	2,786 D	3.3	4.6	5.8
	Duplicate	6	91.3	24.8	56.9	39.3	212	3,920 D	3.5	3.4	6.2
	03-Nov-00	7	7.2	111	7.9	28.4	154.5	3,530	2.6	4.5	6.4
	02-May-01	8 <sup>(4)</sup>	7.3 D	14 D	12 D	21 D	54.3 D	4,500 D	0.77	1.8	9.3
	22-Oct-01	9	Restricted area - no access due to heightened Base security					—	—	—	—
	18-Apr-02	10	6.1 D	10 D	8.8 D	19.6 D	44.5 D	3,600 D	7.0 B	2.3	6.1
	30-Sep-02	11	8.5 D	13 D	9.7 D	14.1 D	45.3 D	3,800 D	2.4	3.3	8.3
	22-Apr-03	12	2.1 D	4.1 D	2.5 D	4.29 D	12.99 D	1,170 BD	0.82	1.6	9.2
	23-Sep-03	13	4.7 D	8.6 D	4.2 D	11.8 D	29.3 D	1,920 D	6.9	1.6	10
	07-Apr-04	14	1.1	2.1	0.53	2.94	6.67	410 B	1.1	2.1	7.7
	25-Oct-04	15	5.3	4.2	1.5	6.8	17.8	1,080	1.5	1.8	9.2
OU2-SV08	08-May-97	Baseline	ND	ND	ND	ND	ND	22.2	ND	25.1	ND
	27-Oct-97	1	39.9	50.7	19.6	14.1	124.3	6,709	18.8	7.6	1.04
	22-Apr-98	2	5.38	7.91	2.78	3.28	19.35	330	2.19	9.32	ND
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	ND	ND	ND	2,090	4.6	21	0.77
	08-Apr-99	4	34.3	13.2	14.8	9.32	71.62	10,662	6.2	8.65	1.34
	06-Oct-99	5	103	32.4	101	192	428.4	8,790	6	11.2	1.7
	Duplicate	5	91.5	30.8	91.4	70.8	284.5	7,950	7.8	9.7	1.9
	20-Apr-00	6	59.7	9.86	32.8	28.3	131	4,880 D	5.9	8.2	2
	03-Nov-00	7	14.3	17	18.4	56.1	105.8	23,510	2.6	17.6	0.5
	01-May-01	8 <sup>(4)</sup>	18 D	24 D	12 D	26.2 D	80.2 D	7,800 D	4.7	12	1.7
	22-Oct-01	9	41 D	64 D	34 D	128 D	267 D	26,000 BD	23 B	5.4	2.3
	18-Apr-02	10	8.6 D	32 D	18 D	35 D	93.6 D	12,300 D	10.8	9.3	1.4
	01-Oct-02	11	17 D	26 D	12 D	31.8 JD	86.8 D	8,900 D	11	17	1.2
	23-Apr-03	12	5.2 D	8.3 D	3.9 D	9.9 D	27.3 D	3,000 BD	4.1	18	0.63
	23-Sep-03	13	5.9 D	8.9 D	4.2 D	8.7 D	27.7 D	2,300 D	3.3	21	0.28
	06-Apr-04	14	Sample could not be collected - water in line					—	—	—	—
	25-Oct-04	15	89 D	54 D	19 D	63.7 D	225.7 D	15,100 D	16	15	1.1

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Sample Location	Date Sampled	Sample Round	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	Total BTEX (ppb)	Total Volatile Hydrocarbons (ppm)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)
OU2-SV09	07-May-97	Baseline	ND	ND	ND	ND	ND	ND	ND	26.5	ND
	27-Oct-97	1	ND	ND	ND	ND	ND	ND	ND	16.2	1.51
	22-Apr-98	2	ND	ND	ND	ND	ND	ND	ND	15.1	1.05
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	ND	ND	ND	ND	ND	21	2.0
	08-Apr-99	4	ND	ND	ND	ND	ND	ND	ND	17.35	0.74
	06-Oct-99	5	ND	ND	ND	ND	ND	ND	ND	18	1.7
	20-Apr-00	6	ND	ND	ND	ND	ND	ND	ND	15	1.0
	03-Nov-00	7	ND	ND	ND	4.1	4.1	ND	ND	18.3	1.4
	02-May-01	8 <sup>(4)</sup>	0.058 J	0.4	0.53	1.45	2.438 J	154	ND	20	1.1
	22-Oct-01	9	Restricted area - no access due to heightened Base security						—	—	—
	18-Apr-02	10	ND	ND	ND	ND	ND	14.5	0.00013 JB	19	1.2
	30-Sep-02	11	0.021 J	0.075	0.079 J	0.134 J	0.309 J	24.4	0.00017 J	21	2.1
	22-Apr-03	12	ND	0.067 J	0.14	0.39 J	0.597 J	44 B	ND	21	1.0
	23-Sep-03	13	0.037 J	2.7	0.82	2.61	6.167 J	230	0.0005	18	3.7
	07-Apr-04	14	0.028 J	0.16	0.20	0.668 J	1.056 J	63 B	ND	21	0.99
	25-Oct-04	15	0.034 J	0.069 J	0.053 J	0.221 J	0.337 J	39	0.0033	19	3.3
OU2-SV10	07-May-97	Baseline	ND	424	9.2	135	568.2	12,500	8.5	5.78	24.2
	27-Oct-97	1	1,192	356	111	167	1826	26,575	16.4	2.87	8.13
	22-Apr-98	2	1,340	644	236	234	2454	31,600	7.36	3.05	4.1
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	50	20	70	9,600	6.9	3.3	14
	Duplicate	3 <sup>(1)</sup>	ND	ND	68	17	85	10,600	6.9	4.0	15
	08-Apr-99	4	396	ND	ND	ND	396	22,374	5.65	4.0	4.65
	06-Oct-99	5	196	23.2	116	161	496	12,000	3.3	2.9	11
	20-Apr-00	6	375 D	23.6 D	145	122	666	16,620 D	1.5	4.0	8.5
	03-Nov-00	7	263	308	25	45.2	641.2	29,650	3.1	3.5	12.1
	02-May-01	8 <sup>(4)</sup>	19 D	42 D	35 D	81 D	177 D	14,400 D	3.3	1.7	8.9
	22-Oct-01	9	Restricted area - no access due to heightened Base security						—	—	—
	16-Apr-02	10	16 D	41 D	31 D	90 D	178 D	14,100 D	7.1 B	2.4	6.2
	Duplicate	10	16 D	38 D	27 D	83 D	164 D	13,400 D	7.3 B	2.3	6.1
	30-Sep-02	11	13 D	49 D	45 D	131 D	238 D	12,700 D	4.9	2.6	11
	Duplicate	11	14 D	62 D	54 D	142 D	272 D	14,800 D	5.1	2.0	11
OU2-SV11	22-Apr-03	12	12 D	18 D	15 D	43.8 D	88.8 D	7,100 BD	6.7	1.8	4.5
	22-Sep-03	13	14 D	38 D	32 D	92 D	176 D	11,300 D	6.3	1.4	8.3
	Duplicate	13	14 D	37 D	32 D	87 D	170 D	10,200 D	6.1	1.8	8.1
	07-Apr-04	14	Sample could not be collected - water in line						—	—	—
	25-Oct-04	15	46 D	34 D	35 D	87.7 D	202.7 D	10,600 D	7.6	2.0	9.5
	08-May-97	Baseline	ND	ND	ND	ND	ND	ND	ND	25.3	ND
	27-Oct-97	1	ND	ND	ND	ND	ND	ND	ND	4.55	4.81
	22-Apr-98	2	ND	ND	ND	ND	ND	ND	ND	5.29	4.17
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	ND	ND	ND	ND	ND	5.2	10
	08-Apr-99	4	ND	ND	ND	ND	ND	ND	ND	3.89	4.44
	06-Oct-99	5	ND	ND	ND	ND	ND	77.8	ND	3.7	7.3
	20-Apr-00	6	ND	ND	ND	ND	ND	ND	ND	6.1	6.6
	03-Nov-00	7	ND	ND	ND	ND	ND	ND	ND	7.8	7.4
	01-May-01	8 <sup>(4)</sup>	ND	ND	ND	ND	ND	8.5 JB	ND	7.1	7.0
	22-Oct-01	9	ND	ND	ND	ND	ND	11.9 BD	ND	7.1	8.4
	18-Apr-02	10	ND	0.15	0.15	0.38	0.68	67	0.0016 B	7.3	5.5
OU2-SV12	01-Oct-02	11	0.088	2.6	0.82	2.8	6.308	242	0.0018	4.7	9.2
	23-Apr-03	12	ND	ND	0.024 J	0.062 J	0.086 J	10.2 JB	0.0017	9.7	5.1
	23-Sep-03	13	0.018 J	0.21	0.27	0.82	1.318 J	85	ND	9.6	1.1
	06-Apr-04	14	ND	0.63	0.17	0.15	0.95	33 B	ND	12	3.2
	27-Oct-04	15	ND	ND	0.019 J	0.062 J	0.081 J	11.9 B	0.00012 J	8.9	6.3
	Duplicate	15	ND	ND	0.022 J	0.075 J	0.097 J	9.0 JB	ND	6.8	7.2
	08-May-97	Baseline	ND	ND	ND	ND	ND	ND	ND	26.2	ND
	27-Oct-97	1	ND	ND	ND	ND	ND	ND	ND	10.2	6.45
	22-Apr-98	2	ND	ND	ND	ND	ND	ND	ND	9.01	3.53
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	ND	ND	ND	ND	ND	14	7.1
	08-Apr-99	4	ND	ND	ND	ND	ND	ND	ND	9.3	3.64
	06-Oct-99	5	ND	ND	ND	ND	ND	ND	ND	13.4	5.6
	20-Apr-00	6	ND	ND	ND	ND	ND	98.4	ND	9.2	3.4
	03-Nov-00	7	ND	ND	ND	ND	ND	ND	ND	10.1	6.7
	01-May-01	8 <sup>(4)</sup>	ND	0.026 J	ND	ND	0.026 J	10.3 JB	ND	14	4.5
	22-Oct-01	9	ND	0.025 J	ND	ND	0.025 J	13.8 B	ND	9.0	8.7
	18-Apr-02	10	ND	0.11	0.087	0.28	0.477	44	0.00012 JB	13.0	4.8
	01-Oct-02	11	ND	0.35	0.45	1.46	2.26	153	ND	14.0	7.1
	23-Apr-03	12	ND	ND	ND	ND	ND	9.4 JB	0.004	16	3.2
	23-Sep-03	13	Sample could not be collected - water in line						—	—	—
	07-Apr-04	14	Sample could not be collected - water in line						—	—	—
	25-Oct-04	15	Laboratory received sample bag empty - sample could not be analyzed						—	—	—

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Sample Location	Date Sampled	Sample Round	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	Total BTEX (ppb)	Total Volatile Hydrocarbons (ppm)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)
OU2-SV13	07-May-97	Baseline	ND	ND	ND	ND	ND	1,090	ND	24.7	ND
	27-Oct-97	1	ND	ND	ND	ND	ND	ND	ND	15.7	1.8
	22-Apr-98	2	ND	ND	ND	ND	ND	ND	ND	16.2	0.6
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	ND	ND	ND	ND	ND	21	2.6
	08-Apr-99	4	ND	ND	ND	ND	ND	ND	ND	14.7	0.79
	06-Oct-99	5	ND	ND	ND	ND	ND	ND	ND	16.5	2.4
	20-Apr-00	6	ND	ND	ND	ND	ND	162	ND	16	0.71
	03-Nov-00	7	ND	ND	ND	ND	ND	ND	ND	17.9	1.7
	01-May-01	8 <sup>(4)</sup>	ND	ND	ND	ND	ND	8.8 JB	ND	21	0.9
	22-Oct-01	9	ND	0.026 J	ND	ND	0.026 J	11.3 B	ND	19	2.7
	18-Apr-02	10	ND	ND	0.11	0.28	0.39	44	0.00019 JB	21	1.2
	01-Oct-02	11	ND	0.59	0.72	2.47	3.78	223	0.0015	21	2.4
	23-Apr-03	12	0.019 J	0.035 J	ND	0.037 J	0.091 J	16.4 B	0.011	21	0.96
	23-Sep-03	13	ND	0.096	0.12	0.385 J	0.601 J	48	ND	17	2.7
	07-Apr-04	14	ND	0.030 J	0.039 J	0.17 J	0.239 J	16.6 B	ND	21	1.3
	25-Oct-04	15	ND	0.052 J	0.037 J	0.11	0.199 J	15.2	0.00015 J	20	2.5
OU2-SV14	07-May-97	Baseline	ND	ND	9.26	11.3	20.56	8,700	10.3	8.78	8.28
	27-Oct-97	1	1,975	414	101	110	2,600	38,558	14.4	3.42	7.13
	22-Apr-98	2	3,480	910	303	456	5,149	53,100	7.33	1.75	4.88
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	30	ND	30	18,500	5.8	4.7	12
	08-Apr-99	4	182	ND	ND	ND	182	50,812	4.2	0.53	4.44
	06-Oct-99	5	673	80.3	454	358	1,563	36,800	3.6	2.8	9.9
	20-Apr-00	6	234 D	35.3	214	130	613	15,850 D	1.8	4.8	7.9
	03-Nov-00	7	340	1680	120	205.4	2,345.4	30,600	2.5	6.8	7.6
	02-May-01	8 <sup>(4)</sup>	79 D	200 D	100 D	215 D	594 D	62,000 D	2.1	1.7	9.9
	22-Oct-01	9	Restricted area - no access due to heightened Base security								
	18-Apr-02	10	59 D	190 D	92 D	245 D	586 D	51,000 D	1.7 B	3.3	8.4
	30-Sep-02	11	75 D	380 D	190 D	469 D	1,114 D	84,000 D	1.6	2.1	11
	22-Apr-03	12	24 D	130 D	62 D	182 D	398 D	33,000 BD	0.91	2.2	8.5
	Duplicate	12	26 D	130 D	65 D	185 D	406 D	34,000 BD	0.90	2.1	8.5
	23-Sep-03	13	45 D	280 D	120 D	277 D	722 D	50,000 D	1.6	1.8	12
OU2-SV15	07-Apr-04	14	11	75	49	114	249	15,900 B	0.17	13	3.6
	Duplicate	14	11	64	29	90	194	14,400 B	0.17	13	3.7
	25-Oct-04	15	160 D	340 D	160 D	452 D	1,112 D	54,000 D	0.96	2.1	11
	07-May-97	Baseline	ND	ND	ND	ND	ND	ND	ND	25.6	ND
	27-Oct-97	1	ND	ND	ND	ND	ND	ND	ND	15.2	1.62
	22-Apr-98	2	ND	ND	ND	ND	ND	ND	ND	15.6	0.94
	20-Oct-98	3 <sup>(1)</sup>	ND	ND	ND	ND	ND	ND	ND	21	1.8
	08-Apr-99	4	ND	ND	ND	ND	ND	ND	ND	17.3	0.94
	06-Oct-99	5	ND	ND	ND	ND	ND	ND	ND	17	2.1
	20-Apr-00	6	ND	ND	ND	ND	ND	ND	ND	16	0.76
	03-Nov-00	7	ND	ND	ND	ND	ND	ND	ND	19.1	1.2
	02-May-01	8 <sup>(4)</sup>	0.15 JD	1.1 D	1.3 D	3.73 D	6.28 D	420 D	0.00017 J	21	0.97
	22-Oct-01	9	Restricted area - no access due to heightened Base security								
	18-Apr-02	10	ND	ND	ND	ND	ND	13.6	ND	21	0.95
	30-Sep-02	11	ND	ND	ND	ND	ND	11.2 J	ND	22	2.0
	22-Apr-03	12	ND	0.14	0.19	0.68	1.01	75 B	0.00032	21	0.87
	23-Sep-03	13	0.096	1.3	1.6	5.4	8.396	420	ND	19	1.8
	07-Apr-04	14	ND	0.089	0.13	0.61	0.829	47 B	ND	22	0.61
	25-Oct-04	15	0.024 J	0.064 J	0.046 J	0.188 J	0.322 J	30	0.00099	19	2.5

<sup>(1)</sup> - BTEX analysis was run outside of the 14 day holding time for EPA Method 8021

<sup>(2)</sup> - Pore volume (PV) purged prior to sampling = 420 cc, provided the highest benzene concentration.

<sup>(3)</sup> - Pore volume (PV) purged prior to sampling = 3240 cc, provided the highest benzene concentration.

<sup>(4)</sup> - Analytical method was changed from EPA Method 8020M to EPA Method TO-3 for this and future rounds.

ND - Concentration is below detection limits

NS - Not sampled. Groundwater in vapor monitoring point.

NA - Result suspect based on previous and prior data

ppb - parts per billion (µg/L)

ppm - parts per million (mg/m<sup>3</sup>)

D - Diluted sample

J - Estimated result Result

less than reporting limit

B - Method blank contamination

**Table 5-4**  
**OU2 Benzene Concentrations Comparison**  
**Wright-Patterson AFB, Ohio**

Well Number	Sample Date of Highest Concentration	Highest Benzene Concentration (µg/L)	October-04 Benzene Concentrations (µg/L)
04-016-M	12-Aug-91	440	ND
04-518-M	06-Sep-88	2,600	Well Abandoned July 8, 2003. In April 2003, benzene = 4.5 JD
NEA-MW20-2S	20-Apr-00	76	24 D
NEA-MW21-3S	24-Apr-00	300	1.3 JD
NEA-MW26-3S	11-Oct-92	ND	ND
NEA-MW28-5S	21-Apr-93	500	ND
OW-1	28-Apr-98	460	0.98 JD
OW-2	11-Oct-99	2.4	ND
OW-3	13-Apr-99	10	ND
OW-4	22-Oct-97	4.0	ND
P18-1	12-Aug-91	570	ND
P18-2	12-Aug-91	1,900	ND

ND - Not Detected

D - Result obtained from the analysis of a dilution.

J - Estimated Result. Result less than reporting limit.

µg/L - micrograms per liter

**Table 5-5**  
**OU2 Baseline and September 2004 Groundwater Elevations**  
**Wright-Patterson AFB, Ohio**

Well Name	Old <sup>(a)</sup> Monitoring Point Elev. (ft, MSL)	New <sup>(b)</sup> Monitoring Point Elev. (ft, MSL)	May-97 <sup>(c)</sup> Depth to Water (ft, TOC)	May-97 Groundwater Elevation (ft, MSL)	28-Sep-04 Depth to Water (ft, TOC)	28-Sep-04 Groundwater Elevation (ft, MSL)
04-016-M	820.90	818.33	10.82	810.08	8.58	809.75
04-517-M	821.96	NC	8.00	813.96	8.23	813.73
04-518-M	820.65	NC	11.08	809.57	Abandoned	—
04-606-M	820.18	NC	NM	NM	10.64	809.54
NEA-MW20-2S	821.49	NC	9.75	811.74	9.55	811.94
NEA-MW21-3S	820.85	NC	12.15	808.70	10.98	809.87
NEA-MW22-3S	819.48	817.87	9.00	810.48	7.53	810.34
NEA-MW23-2S	818.06	816.50	8.91	809.15	7.71	808.79
NEA-MW24-2S	818.68	NC	10.08	808.60	9.81	808.87
NEA-MW25-3S	817.08	815.20	12.50	804.58	10.71	804.49
NEA-MW26-3S	819.23	NC	12.75	806.48	12.56	806.67
NEA-MW28-5S	820.10	818.50	12.25	807.85	11.08	807.42
NEA-MW29-2S	817.92	816.23	12.62	805.30	10.88	805.35
NEA-PZ32	823.69	NC	NM	NM	10.29	813.40
OW-1	817.20	NC	8.70	808.50	8.53	808.67
OW-2	819.77	817.64	12.71	807.06	10.48	807.16
OW-3	820.95	819.04	14.50	806.45	12.44	806.60
OW-4	817.20	NC	10.87	806.33	10.57	806.63
OW-6	816.40	NC	10.91	805.49	10.66	805.74
MW11-1	821.33	NC	NM	NM	11.20	810.13
P16-1	818.92	816.50	7.00	811.92	5.03	811.47
P18-1	816.72	NC	10.65	806.07	10.42	806.30
P18-2	820.04	817.91	13.58	806.46	11.62	806.29

<sup>(a)</sup> - Monitoring point elevations prior to October 1999  
<sup>(b)</sup> - Monitoring point elevations after flush-mounting in October 1999  
<sup>(c)</sup> - Reference: OU2 Baseline Sampling Results Report (IT, 1997)

ft - Feet  
MSL - Mean Sea Level  
TOC - Top of Casing  
NM - Not Measured  
NC - No change in TOC elevation.

Q

C

C

**Table 6-1**  
**Basewide LTM Groundwater Field Parameters: October 2004**  
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Well Number	Date Sampled	Static Water Level (ft. TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
<b>Basewide Semi-Annual VOCs</b>								
<b>B59-MW01</b> Screened Interval = 5-15 ft bgs Reference Point Elevation = 807.89 ft MSL	13-Oct-98	5.07	18.00	6.58	0.755	47.0	49.8	NA
	27-Apr-99	7.00	14.60	7.99	0.548	21.0	131.9	4.60
	11-Apr-01	3.38	13.00	7.35	1.760	12.0	213.6	13.23
	12-Oct-01	5.49	22.04	7.21	0.993	18.0	221.8	1.39
	19-Apr-02	5.75	17.50	8.09	0.691	1.0	336.0	3.13
	26-Sep-02	5.11	22.31	7.24	0.756	1.2	108.0	1.91
	08-Apr-03	6.42	12.17	7.73	5.230	0.0	68.0	6.81
	07-Oct-03	5.40	23.49	7.43	0.440	0.0	28.0	1.75
	13-Apr-04	4.93	9.80	8.93	0.598	20.5	174.0	7.36
	15-Oct-04	3.35	18.74	7.51	0.509	3.9	85.0	2.75
<b>B59-MW02</b> Screened Interval = 20.5-30.5 ft bgs Reference Point Elevation = 808.8 ft MSL	08-Oct-98	11.50	16.40	7.11	1.020	125	-10.6	1.35
	27-Apr-99	10.92	14.80	7.32	0.910	145	156.6	0.38
	11-Apr-01	10.66	14.90	7.07	0.600	0.0	128.9	13.32
	17-Oct-01	11.57	16.41	7.21	0.838	1.1	-50.3	0.86
	17-Apr-02	11.63	19.50	8.06	0.910	7.1	-25.0	0.43
	27-Sep-02	9.48	18.52	7.28	0.913	4.0	-70.0	0.69
	07-Apr-03	12.00	13.67	7.43	1.060	4.1	56.0	0.00
	07-Oct-03	9.77	18.12	7.10	0.474	1.0	-136.0	0.04
	13-Apr-04	9.81	11.34	7.40	1.160	3.4	23.0	0.58
	12-Oct-04	10.15	17.98	7.18	0.940	2.1	-136.0	0.24
<b>B59-MW03</b> Screened Interval = 10-20 ft bgs Reference Point Elevation = 807.57 ft MSL	08-Oct-98	11.55	18.10	7.20	0.643	23.0	NA	1.32
	27-Apr-99	9.60	14.30	7.17	0.685	off scale	163.3	0.31
	11-Apr-01	8.74	15.90	7.25	0.642	37.0	44.0	0.32
	17-Oct-01	9.83	16.90	7.17	0.687	24.0	-31.5	1.25
	26-Apr-02	11.20	13.40	7.70	0.522	2.5	-30.0	0.29
	17-Oct-02	9.95	17.73	7.09	0.645	3.4	-84.0	0.72
	15-Apr-03	8.34	15.82	7.27	0.985	10.2	-31.0	0.27
	08-Oct-03	7.99	18.77	7.13	1.040	23.9	-96.0	3.25
	20-Apr-04	7.75	14.05	7.29	0.949	19.4	-39.0	3.74
	12-Oct-04	7.90	17.05	7.07	0.930	11.5	-107.0	0.66
<b>B59-MW04</b> Screened Interval = 7-17 ft bgs Reference Point Elevation = 807.53 ft MSL	08-Oct-98	6.16	20.60	7.32	0.735	58.0	56.9	5.76
	27-Apr-99	7.00	14.40	7.79	0.685	off scale	194.3	1.97
	11-Apr-01	Not sampled, wellhead damaged.			—	—	—	—
	17-Oct-01	7.96	20.47	7.14	1.146	36.0	-23.6	5.97
	19-Apr-02	7.32	18.80	10.63	0.438	13.1	31.0	0.56
	26-Sep-02	6.56	22.83	7.48	0.477	6.2	8.0	0.34
	08-Apr-03	8.34	12.49	8.61	2.860	0.4	36.0	0.00
	07-Oct-03	6.50	21.90	7.11	3.600	1.4	-39.0	0.36
	13-Apr-04	5.63	11.56	11.27	1.560	0.3	-4.0	3.94
	15-Oct-04	6.67	19.21	8.67	1.510	5.9	45.0	0.66
<b>BS5 P-1</b> Screened Interval = 28-38 ft bgs Ground Surface Elevation = 801.74 ft MSL	04-Nov-98	30.40	13.00	6.66	0.736	208	169.9	6.62
	19-Apr-99	30.18	13.80	8.45	0.930	42.6	-114.2	6.99
	08-Oct-99	DRY	—	—	—	—	—	—
	26-Apr-00	BTP	14.40	7.36	0.627	19.0	97.3	9.76
	20-Oct-00	DRY	—	—	—	—	—	—
	19-Apr-01	31.95	13.30	7.06	0.569	0.0	ERR	9.19
	11-Oct-01	31.66	14.60	6.88	1.041	7.4	212.8	9.47
	25-Apr-02	29.59	13.20	7.22	1.110	5.3	130.0	8.43
	01-Oct-02	30.75	15.39	7.09	1.030	12.1	208.0	7.66
	11-Apr-03	32.15	12.70	7.08	0.970	0.0	171.0	7.66
	07-Oct-03	29.96	13.08	7.03	0.525	0.0	155.0	7.07
	27-Apr-04	29.70	11.63	6.98	0.990	18.6	201.0	6.46
	19-Oct-04	30.88	13.27	7.09	0.940	4.2	105.0	6.62
<b>BS5 P-2</b> Screened Interval = 30-40 ft bgs Ground Surface Elevation = 802.36 ft MSL	04-Nov-98	31.02	12.30	6.53	0.634	off scale	364.9	6.87
	19-Apr-99	30.70	13.90	7.29	0.468	326	228.2	8.28
	08-Oct-99	BTP	14.70	7.16	0.936	38.0	4.1	6.63
	26-Apr-00	BTP	11.90	7.09	0.683	17.0	93.0	6.84
	20-Oct-00	BTP	12.70	6.72	0.431	9.0	221.2	7.20
	19-Apr-01	33.08	13.50	7.33	0.576	0.0	156.7	7.99
	10-Oct-01	32.22	15.97	7.23	1.457	18.1	243.2	26.89
	25-Apr-02	30.13	12.70	6.99	0.556	4.8	164.0	8.00
	01-Oct-02	31.29	15.26	6.65	0.565	1.2	246.0	7.96
	11-Apr-03	32.72	12.90	6.94	0.588	4.4	175.0	7.70
	07-Oct-03	30.50	12.89	6.92	0.417	1.3	163.0	7.62
	27-Apr-04	30.25	12.58	7.04	0.635	15.0	178.0	7.53
	19-Oct-04	31.43	13.34	7.02	0.863	0.0	102.0	7.19

**Table 6-1**  
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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
<b>BS5 P-3</b> Screened Interval = 33-43 ft bgs Ground Surface Elevation = 806.86 ft MSL	04-Nov-98	35.56	14.60	6.60	0.742	473	163.0	5.20
	19-Apr-99	35.26	15.80	8.61	0.910	51.0	-125.9	5.37
	08-Oct-99	DRY	--	--	--	--	--	--
	26-Apr-00	BTP	12.40	7.27	0.980	0.0	127.0	7.21
	20-Oct-00	BTP	14.20	6.99	0.516	64.0	200.9	7.42
	19-Apr-01	37.08	13.00	7.43	1.700	2.0	30.4	5.96
	11-Oct-01	36.78	16.46	6.80	1.104	4.2	228.7	7.32
	25-Apr-02	34.68	13.90	7.07	1.040	0.3	133.0	5.99
	01-Oct-02	35.83	17.43	7.12	1.060	10.6	189.0	5.49
	11-Apr-03	37.25	13.30	7.20	1.520	0.0	108.0	6.12
	07-Oct-03	35.10	16.71	7.11	1.070	0.0	145.0	6.25
	27-Apr-04	34.61	13.50	7.10	1.810	9.8	168.0	6.70
	19-Oct-04	36.10	14.02	7.28	1.150	8.4	141.0	5.79
<b>BS5 P-4</b> Screened Interval = 45-50 ft bgs Ground Surface Elevation = 807.03 ft MSL	04-Nov-98	35.76	13.40	6.63	0.735	146	152.7	5.83
	19-Apr-99	35.40	13.80	7.26	0.600	44.0	NA	6.52
	08-Oct-99	42.72	14.10	6.59	1.080	19.0	149.4	6.47
	26-Apr-00	40.56	11.90	7.28	1.250	0.0	-14.6	7.30
	20-Oct-00	40.21	16.00	6.84	0.552	6.0	158.4	7.42
	20-Apr-01	37.15	11.30	7.44	1.690	0.0	158.1	7.04
	10-Oct-01	36.96	16.54	6.84	2.354	18.9	188.0	28.56
	25-Apr-02	34.84	14.00	7.01	0.970	2.2	68.0	5.73
	01-Oct-02	36.00	16.46	7.11	1.010	3.2	143.0	5.15
	11-Apr-03	37.38	14.30	7.11	1.530	0.0	140.0	6.60
	07-Oct-03	35.22	15.44	6.97	1.000	0.3	170.0	6.72
	27-Apr-04	34.69	14.09	7.15	1.030	0.0	61.0	5.95
	19-Oct-04	35.77	14.86	7.26	1.310	3.9	153.0	7.10
<b>B79 C/D-MW01</b> Screened Interval = 16-20 ft bgs Ground Surface Elevation = 867.6 ft MSL	26-Sep-02	6.45	15.89	6.85	1.120	5.4	-89.0	0.07
	16-Apr-03	3.58	16.36	6.70	1.400	390	-87.0	1.40
	06-Oct-03	4.42	16.44	6.81	1.190	239	-79.0	0.49
	28-Apr-04	3.78	14.82	6.94	1.010	643	-52.0	0.00
	08-Oct-04	6.80	15.87	7.10	1.180	209	-119.0	0.16
<b>B79 C/D-MW02</b> Screened Interval = 18.5-28.5 ft bgs Ground Surface Elevation = 871.9 ft MSL	26-Sep-02	3.56	14.49	6.93	1.180	2.8	2.0	0.04
	15-Apr-03	2.70	15.80	6.89	1.190	455	-4.0	0.00
	06-Oct-03	1.40	19.67	6.85	1.200	24.8	-42.0	0.59
	19-Apr-04	0.78	13.51	6.79	1.010	24.0	-28.0	0.56
	12-Oct-04	4.14	14.36	6.82	1.210	170.0	-34.0	0.00
<b>B79 C/D-MW03</b> Screened Interval = 21-26 ft bgs Ground Surface Elevation = 875.5 ft MSL	25-Sep-02	5.83	16.09	7.06	1.230	0.5	17.0	4.05
	16-Apr-03	3.57	14.17	6.62	1.420	24.6	74.0	1.07
	06-Oct-03	4.01	15.11	6.77	1.260	18.6	-34.0	0.45
	20-Apr-04	3.75	13.14	7.05	0.962	437	44.0	3.02
	08-Oct-04	6.59	16.07	7.09	1.270	9.4	-61.0	0.28
<b>B79 C/D-MW04</b> Screened Interval = 10-20 ft bgs Ground Surface Elevation = 879 ft MSL	25-Sep-02	7.26	17.29	7.17	1.270	2.6	50.0	7.18
	16-Apr-03	6.90	14.70	6.83	1.520	17.7	17.0	0.00
	07-Oct-03	5.86	14.99	6.72	1.430	1.41	11.0	0.52
	19-Apr-04	NA	13.27	6.97	1.440	63.6	60.0	1.09
	08-Oct-04	NA	15.62	7.05	1.420	13.2	14.0	1.62
<b>NEA-MW27-3I</b> Screened Interval = 40.8-45.5 ft bgs Ground Surface Elevation = 822.73 ft MSL	27-Apr-98	18.45	13.80	7.10	0.760	19.0	-63.1	5.16
	28-Oct-98	19.09	14.50	6.88	0.825	20.0	83.0	5.60
	21-Apr-99	18.04	14.00	8.63	0.879	4.3	-355.9	5.13
	13-Oct-99	20.81	14.30	6.56	0.783	0.0	-1.8	4.32
	19-Apr-00	18.57	14.00	7.02	0.857	14.0	-32.0	11.40
	18-Oct-00	19.65	14.20	7.28	0.859	3.0	164.5	4.90
	16-Apr-01	19.17	12.70	6.87	0.676	1.0	234.3	12.04
	12-Oct-01	18.36	16.62	6.93	2.429	19.7	271.0	5.92
	17-Apr-02	16.83	18.20	7.07	0.935	11.7	37.0	4.88
	16-Oct-02	18.12	13.95	7.13	0.861	9.6	0.0	5.39
	15-Apr-03	16.59	14.90	7.04	0.949	0.0	15.0	3.62
	06-Oct-03	16.54	13.78	6.95	0.805	9.5	128.0	5.50
	19-Apr-04	15.72	15.09	7.05	0.838	12.1	85.0	5.27
	12-Oct-04	18.02	15.08	6.98	0.756	9.1	-12.0	3.94



**Table 6-1**  
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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
<b>NEA-MW34-2S</b> Screened Interval = 8.5-18.4 ft bgs Ground Surface Elevation = 814.34 ft MSL	23-Oct-98	11.32	15.20	6.75	0.627	7.0	146.5	6.27
	19-Apr-99	10.44	11.10	7.20	0.463	0.0	NA	5.78
	07-Oct-99	12.71	15.20	6.78	0.628	5.0	172.5	5.04
	19-Apr-00	8.41	11.70	7.38	1.020	19.0	183.5	7.34
	19-Oct-00	10.46	15.20	7.37	0.805	5.0	130.0	5.38
	17-Apr-01	9.65	10.80	6.95	0.496	0.0	151.9	16.33
	10-Oct-01	No access - area was restricted.			--	--	--	--
	17-Apr-02	No access - area was restricted.			--	--	--	--
	03-Oct-02	9.11	19.54	7.21	0.776	10.6	146.0	6.32
	16-Apr-03	No access - area was restricted.			--	--	--	--
	02-Oct-03	8.44	15.10	7.05	0.661	14.6	75.0	6.13
	15-Apr-04	7.82	11.37	7.10	0.745	13.8	82.0	10.69
	08-Oct-04	9.68	16.15	7.20	0.666	0.0	77.0	5.26
<b>FTA2:MW02C</b> Screened Interval = 9.6-19.2 ft bgs Ground Surface Elevation = 804.20 ft MSL	23-Apr-98	13.61	13.70	7.11	0.824	0.0	-120.1	1.03
	28-Oct-98	14.52	18.10	6.44	0.695	0.0	-179.6	0.57
	22-Apr-99	12.70	13.20	8.12	0.906	0.9	-260.8	1.42
	07-Oct-99	14.77	16.60	6.98	0.839	8.0	-191.9	2.29
	25-Apr-00	15.39	15.20	6.85	0.900	0.0	-52.0	1.46
	20-Oct-00	14.25	17.00	6.96	0.857	0.0	-16.0	0.06
	18-Apr-01	13.46	11.90	6.87	1.130	0.0	-69.6	0.51
	11-Oct-01	14.05	20.24	6.80	0.931	0.0	-67.7	1.10
	23-Apr-02	13.80	10.40	7.09	0.912	0.9	19.0	8.22
	01-Oct-02	13.41	19.05	6.95	0.949	1.5	-94.0	2.23
	21-Apr-03	16.23	11.40	6.67	1.020	4.2	-107.0	2.99
	03-Oct-03	13.46	14.91	6.80	0.511	0.0	-129.0	0.00
	26-Apr-04	13.25	11.62	6.74	0.706	0.9	-104.0	0.00
	21-Oct-04	14.10	14.92	6.74	0.990	1.1	-137.0	0.19
<b>LF12:MW15A</b> Screened Interval = 3.72-15.4 ft bgs Ground Surface Elevation = 798.33 ft MSL	21-Oct-98	8.21	15.50	6.52	0.697	0.0	14.1	0.00
	21-Apr-99	7.23	13.10	7.01	0.803	3.0	211.8	0.54
	07-Oct-99	8.23	15.20	6.65	0.782	0.0	165.9	0.00
	13-Oct-99 (dup)	8.16	15.00	7.09	0.594	0.0	181.3	0.00
	20-Apr-00	7.31	12.20	7.15	1.230	0.0	198.9	1.70
	18-Oct-00	7.60	14.40	7.22	0.862	0.0	179.9	0.14
	16-Apr-01	7.01	10.80	6.84	0.685	0.0	254.1	6.52
	16-Oct-01	6.87	14.79	6.89	1.144	0.0	35.4	1.59
	17-Apr-02	6.57	12.00	6.78	0.947	0.0	136.0	0.00
	01-Oct-02	6.70	17.02	7.17	0.950	2.4	70.0	1.50
	16-Oct-02 (dup)	7.70	14.42	7.01	0.876	0.0	84.0	0.00
	14-Apr-03	Wellhead damaged - unable to sample			--	--	--	--
	03-Oct-03	Wellhead damaged - unable to sample			--	--	--	--
	19-Apr-04	Well abandoned			--	--	--	--
<b>07-520-M</b> Screened Interval = 5.1-15.1 ft bgs Ground Surface Elevation = 798.27 ft MSL	21-Oct-98	9.61	15.10	6.56	1.080	0.0	-134.9	5.19
	20-Apr-99	9.10	11.90	6.64	1.110	56.0	NA	0.62
	07-Oct-99	9.91	14.70	6.33	1.040	8.0	-78.3	0.37
	20-Apr-00	8.80	11.60	6.74	1.130	19.0	-123.0	2.12
	18-Oct-00	9.40	14.80	6.81	1.120	0.0	-116.5	0.20
	23-Apr-01	9.00	11.60	6.57	1.130	0.0	-66.8	0.18
	10-Oct-01	10.71	14.98	6.50	1.365	0.0	-71.4	1.61
	23-Apr-02	9.90	10.70	7.05	1.450	0.9	-64.0	0.00
	25-Apr-02 <sup>A</sup>	9.46	10.60	6.90	1.330	0.3	-28.0	0.33
	01-Oct-02	8.60	16.29	6.76	1.200	4.7	-82.0	1.63
	14-Apr-03	8.92	10.80	6.61	1.330	8.7	-83.0	0.00
	15-Oct-03	8.70	14.58	6.56	1.260	10.5	-111.0	3.42
	26-Apr-04	8.70	10.74	6.47	1.010	10.6	-77.0	0.00
	08-Oct-04	9.13	15.50	6.64	1.140	4.5	-100.0	2.35
<b>05-DM-123S</b> Screened Interval = 5-15 ft bgs Ground Surface Elevation = 795.35 ft MSL	21-Oct-98	7.44	14.70	6.57	0.805	3.0	7.7	0.76
	20-Apr-99	7.85	10.10	6.98	0.837	3.0	118.9*	0.50
	07-Oct-99	8.47	14.40	6.96	0.847	2.0	-3.1	0.15
	20-Apr-00	7.53	12.30	6.99	0.880	0.0	-83.9	ERR
	23-Oct-00	7.83	14.20	6.54	0.486	1.0	60.1	0.72
	16-Apr-01	7.18	10.10	6.82	0.692	0.0	105.0	8.97
	10-Oct-01	7.56	15.56	7.01	0.932	0.0	177.1	0.34
	24-Apr-02	8.08	12.20	7.16	0.816	0.0	244.0	0.22
	01-Oct-02	7.30	15.24	6.90	0.900	0.3	55.0	7.22
	14-Apr-03	9.85	12.10	6.93	0.921	0.0	59.0	0.00
	03-Oct-03	7.70	15.00	6.79	0.872	6.5	111.0	0.42
	19-Apr-04	7.70	16.34	7.04	0.785	14.2	53.0	1.07
	21-Oct-04	8.28	15.33	6.87	0.980	0.4	119.0	0.69

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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
<b>05-DM-123I</b> Screened Interval = 19.75-24.8 ft bgs Ground Surface Elevation = 798.64 ft MSL	21-Oct-98	8.39	14.00	6.81	0.793	8.0	-44.9	0.00
	20-Apr-99	7.70	10.90	7.11	0.841	7.0	98.5*	0.54
	07-Oct-99	8.30	13.70	7.16	0.841	1.0	-65.2	0.14
	20-Apr-00	7.38	12.50	7.04	0.859	2.0	-79.4	ERR
	23-Oct-00	7.70	13.70	6.73	0.471	0.0	-29.5	0.24
	10-Apr-01	7.11	13.00	6.97	0.699	0.0	18.9	13.35
	10-Oct-01	7.44	14.46	7.08	0.900	15.3	103.2	0.21
	24-Apr-02	7.92	12.40	7.23	0.788	0.0	68.0	0.00
	01-Oct-02	7.13	14.99	6.94	0.930	0.0	-64.0	0.20
	15-Apr-03	7.75	12.20	6.99	0.927	0.0	14.0	0.00
	06-Oct-03	7.59	14.63	6.49	0.840	8.1	-25.0	5.19
	19-Apr-04	7.61	13.62	7.00	0.822	12.5	-8.0	0.00
	12-Oct-04	8.32	14.60	6.92	0.759	0.0	-74.0	0.00
<b>05-DM-123D</b> Screened Interval = 26.8-31.8 ft bgs Ground Surface Elevation = 795.46 ft MSL	21-Oct-98	7.75	14.10	6.60	0.800	1.0	-160.0	0.10
	20-Apr-99	6.95	12.00	7.20	0.862	3.0	115.6*	0.59
	07-Oct-99	7.50	14.90	7.25	0.857	8.0	-79.7	0.67
	20-Apr-00	6.56	13.00	7.12	0.866	5.0	-67.9	ERR
	23-Oct-00	6.93	13.60	6.83	0.473	0.0	-112.7	0.24
	10-Apr-01	6.28	13.10	6.97	0.696	0.0	147.5	13.47
	10-Oct-01	6.75	14.13	7.15	0.912	10.8	-45.5	0.34
	17-Apr-02	5.80	13.20	6.97	0.911	1.0	-3.0	0.00
	01-Oct-02	6.30	15.84	7.07	0.910	10.6	-83.0	1.43
	14-Apr-03	7.10	13.30	7.33	0.937	0.5	-42.0	0.49
	03-Oct-03	6.75	14.04	7.18	0.493	0.3	-116.0	0.00
	19-Apr-04	6.83	14.09	7.19	0.841	9.3	-17.0	1.35
	21-Oct-04	7.47	13.99	7.08	0.970	0.0	-135.0	0.00
<b>BMP-OU4-1B-60</b> Screened Interval = 50-60 ft bgs Ground Surface Elevation = 804.85 ft MSL	21-Oct-98	8.71	14.10	6.53	1.410	0.0	-22.6	0.00
	16-Apr-99	7.98	12.80	8.14	1.230	0.0	-56.2	0.16
	05-Oct-99	9.08	14.20	6.89	1.440	0.0	-146.3	0.09
	18-Apr-00	7.21	13.40	7.02	1.200	10.0	-69.9	ERR
	16-Oct-00	8.12	15.10	6.99	1.470	0.0	90.6	0.04
	09-Apr-01	8.12	15.70	7.05	1.590	0.0	164.3	0.18
	15-Oct-01	9.06	14.79	6.89	1.982	10.7	24.2	0.62
	16-Apr-02	6.23	14.80	7.04	1.540	5.2	-1.0	1.18
	30-Sep-02	7.11	16.31	6.93	1.750	0.3	8.0	0.14
	17-Apr-03	8.65	13.70	7.07	1.510	3.9	-20.0	0.00
	01-Oct-03	7.50	14.65	6.94	2.040	0.3	-23.0	0.00
	16-Apr-04	7.13	14.45	7.02	1.860	6.7	-48.0	0.19
	08-Oct-04	8.88	16.70	7.09	1.380	15.3	-43.0	0.28
<b>BMP-OU4-1C-84</b> Screened Interval = 74-84 ft bgs Ground Surface Elevation = 804.93 ft MSL	20-Oct-98	8.53	15.50	6.73	1.150	19.0	-127.9	1.18
	16-Apr-99	7.85	11.20	7.06	1.180	0.0	159.1	0.94
	05-Oct-99	8.90	15.30	7.17	1.140	23.0	-266.1	0.21
	18-Apr-00	7.11	12.70	6.77	1.100	5.0	-89.6	ERR
	16-Oct-00	7.89	14.50	6.97	1.030	10.0	-156.9	0.11
	09-Apr-01	8.01	17.60	7.15	1.170	0.0	-85.9	0.66
	15-Oct-01	8.37	14.90	7.00	1.268	23.0	-96.0	1.35
	16-Apr-02	6.15	14.20	7.02	1.240	4.0	-103.0	1.09
	30-Sep-02	7.02	21.85	7.06	1.580	18.9	-118.0	1.36
	17-Apr-03	7.48	13.50	7.09	1.270	14.9	-147.0	0.00
	01-Oct-03	7.30	14.19	7.05	0.646	2.3	-156.0	0.00
	16-Apr-04	6.95	14.28	7.02	1.330	9.2	-136.0	0.31
	08-Oct-04	8.62	17.08	7.17	1.240	3.8	-166.0	0.44
<b>OU4-MW-02A</b> Screened Interval = 7-17 ft bgs Ground Surface Elevation = 808.90 ft MSL	23-Apr-98	11.65	12.30	7.20	0.920	0.0	-111.4	0.68
	20-Oct-98	13.25	14.50	6.96	1.150	112	-63.3	11.19
	19-Apr-99	12.10	12.00	6.91	1.150	1.0	75.0*	0.19
	05-Oct-99	13.76	14.80	6.51	1.060	37.0	-79.1	0.04
	17-Apr-00	11.69	13.40	7.11	1.190	16.0	-197.0	2.69
	23-Oct-00	12.88	14.90	7.16	1.160	1.0	110.3	0.52
	09-Apr-01	12.83	15.80	6.99	1.250	10.0	-68.7	1.36
	11-Oct-01	12.52	16.00	6.82	1.402	3.2	-51.6	2.33
	16-Apr-02	10.84	14.20	7.27	1.680	7.4	27.0	0.39
	30-Sep-02	11.75	16.45	6.77	1.200	9.0	8.0	0.68
	17-Apr-03	12.18	12.30	6.99	1.670	23.9	-99.0	0.00
	01-Oct-03	12.03	14.62	6.80	0.754	7.4	-130.0	0.00
	26-Apr-04	11.79	11.81	6.78	1.420	17.6	-84.0	1.55
	08-Oct-04	13.46	14.83	6.80	1.130	4.5	-132.0	0.40

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Well Number	Date Sampled	Static Water Level (ft. TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
OU4-MW-02B Screened Interval = 46.1-56.1 ft bgs Ground Surface Elevation = 804.40 ft MSL	23-Apr-98	11.32	13.50	7.40	1.040	0.0	99.9	0.98
	20-Oct-98	12.95	13.30	7.07	1.200	9.0	36.5	12.75
	19-Apr-99	12.15	13.40	7.15	1.060	5.0	186.1*	0.51
	07-Oct-99	13.52	13.60	7.75	0.836	0.0	103.2	0.69
	17-Apr-00	11.42	13.70	7.41	1.000	3.0	-90.0	3.18
	23-Oct-00	12.58	14.30	7.22	1.290	0.0	134.9	0.19
	09-Apr-01	12.52	15.90	7.13	1.270	0.0	-63.4	0.42
	11-Oct-01	12.25	15.21	7.01	1.518	0.0	180.4	1.28
	16-Apr-02	10.56	15.30	7.70	1.090	0.1	267.0	9.01
	30-Sep-02	11.48	15.71	6.94	1.270	0.1	269.0	2.41
	17-Apr-03	11.91	13.85	7.02	1.520	2.7	153.0	3.74
	01-Oct-03	11.73	13.28	6.99	0.869	2.7	78.0	3.55
	26-Apr-04	11.53	13.00	7.05	1.280	0.0	142.0	1.00
	08-Oct-04	13.15	13.96	7.03	1.180	0.0	19.0	0.70
OU4-MW-03B Screened Interval = 57-62 ft bgs Ground Surface Elevation = 806.20 ft MSL	21-Apr-98	12.26	13.40	7.53	1.080	0.0	12.3	1.97
	20-Oct-98	14.10	12.90	6.97	1.480	5.0	84.8	0.47
	21-Apr-99	12.87	13.10	8.56	1.100	0.5	-195.2	2.44
	13-Oct-99	14.55	15.20	6.51	1.250	0.0	130.6	0.00
	17-Apr-00	12.57	14.60	7.26	1.030	0.0	150.3	1.57
	18-Oct-00	13.58	13.70	7.27	1.800	0.0	-62.7	0.16
	16-Apr-01	11.93	13.40	6.88	1.180	0.0	232.4	10.64
	12-Oct-01	13.29	14.37	6.93	1.986	1.0	232.0	0.83
	17-Apr-02	11.86	15.30	6.87	1.430	0.1	-8.0	0.00
	16-Oct-02	13.58	13.49	7.21	1.410	3.6	72.0	0.92
	15-Apr-03	12.96	16.60	7.14	1.340	0.0	57.0	1.68
	06-Oct-03	13.11	12.91	6.93	1.680	0.0	127.0	0.78
	20-Apr-04	12.77	13.32	6.99	1.430	5.0	161.0	8.93
	12-Oct-04	14.31	15.46	7.02	1.520	0.0	82.0	2.80
OU4-MW-03C Screened Interval = 73.53-83.5 ft bgs Ground Surface Elevation = 806.50 ft MSL	21-Apr-98	20.85	13.40	7.28	0.940	0.0	-17.9	1.73
	20-Oct-98	13.92	13.20	6.99	1.300	16.0	120.7	2.17
	19-Apr-99	13.08	13.70	8.45	1.110	0.0	-189.8	0.09
	04-Oct-99	14.39	12.90	7.07	1.330	2.0	6.9	0.26
	17-Apr-00	12.40	14.50	7.23	1.080	0.0	139.5	1.50
	19-Oct-00	13.42	14.10	7.17	1.630	0.0	104.1	0.33
	09-Apr-01	13.38	15.40	7.25	1.260	2.0	198.8	0.17
	09-Oct-01	BTP	13.78	6.76	1.035	6.8	-14.2	0.00
	16-Apr-02	11.54	14.40	6.63	1.370	0.4	149.0	0.00
	30-Sep-02	12.43	20.44	7.12	1.390	0.0	92.0	0.77
	11-Apr-03	12.68	14.87	7.13	1.440	22.5	31.0	1.64
	01-Oct-03	12.76	12.95	7.24	0.897	5.9	147.0	7.02
	26-Apr-04	12.50	13.74	7.04	1.420	18.6	40.0	0.31
	19-Oct-04	13.68	13.01	7.15	1.520	8.2	51.0	0.73
OU4-MW-04A Screened Interval = 9.5-19.5 ft bgs Ground Surface Elevation = 808.20 ft MSL	23-Apr-98	12.38	11.50	6.96	0.980	0.0	161.3	1.23
	20-Oct-98	14.32	13.00	6.30	1.390	1.0	-70.3	1.53
	19-Apr-99	13.27	11.60	7.85	1.250	0.0	-186.9	0.27
	04-Oct-99	14.81	14.30	6.23	1.310	0.0	-36.1	0.00
	18-Apr-00	12.77	11.20	6.72	1.320	10.0	-26.5	ERR
	23-Oct-00	14.00	15.50	6.76	1.270	0.0	65.1	0.77
	11-Apr-01	8.74	11.70	6.71	1.270	5.0	-32.1	0.13
	09-Oct-01	13.62	15.79	6.28	0.963	11.6	-20.8	0.00
OU4-MW-04B Screened Interval = 30.5-40.5 ft bgs Ground Surface Elevation = 808.20 ft MSL	16-Apr-02	11.61	17.90	7.56	1.300	43.3	145.0	0.56
	01-Oct-02	12.79	18.74	6.92	1.370	25.1	53.0	1.09
	10-Apr-03	14.78	12.20	6.94	1.590	201	46.0	0.00
	01-Oct-03	12.90	12.46	6.95	0.818	19.9	26.0	1.74
	26-Apr-04	12.62	13.24	7.03	1.470	120	-1.0	1.16
	19-Oct-04	14.02	12.18	7.10	1.490	109.0	-7.0	1.05
OU4-MW-12B Screened Interval = 39.94-49.9 ft bgs Ground Surface Elevation = 805.0 ft MSL	23-Apr-98	11.55	13.40	7.42	1.680	0.0	49.3	1.68
	20-Oct-98	13.21	14.40	6.62	1.030	0.0	78.9	1.32
	19-Apr-99	12.30	12.20	7.12	0.995	5.0	193.2*	2.90
	06-Oct-99	13.67	15.10	6.55	0.921	1.0	119.1	0.07
	17-Apr-00	11.67	14.50	7.07	0.960	3.0	103.3	0.74
	23-Oct-00	12.78	14.00	7.28	1.130	0.0	80.0	0.54
	09-Apr-01	12.67	14.60	7.27	1.090	3.0	194.7	0.25
	11-Oct-01	14.06	15.43	6.96	1.511	0.0	42.2	7.11
	16-Apr-02	11.77	14.00	6.92	1.230	0.0	203.0	0.00
	30-Sep-02	11.68	18.58	7.17	1.110	0.7	123.0	2.59
	17-Apr-03	14.50	13.10	6.85	1.220	9.2	168.0	0.00
	15-Oct-03	11.90	14.19	7.07	1.280	0.0	120.0	0.29
	26-Apr-04	11.72	12.52	6.95	1.170	4.7	169.0	1.05
	08-Oct-04	13.32	16.12	7.16	0.980	0.0	68.0	1.26

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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
<b>CW04-060</b> Screened Interval = 49.7-59.7 ft bgs Ground Surface Elevation = 789.36 ft MSL	14-Apr-00	6.31	16.30	7.31	0.920	37.0	-43.3	0.09
	02-Nov-00	20.87	14.90	7.49	1.050	0.0	-100.5	0.08
	10-Apr-01	19.91	13.60	6.93	0.822	0.0	240.6	0.28
	16-Oct-01	NA	14.58	7.19	1.249	20.0	-118.9	1.36
	25-Apr-02	18.40	11.70	7.00	1.120	0.0	-116.0	1.66
	16-Oct-02	24.47	16.09	7.32	1.020	3.9	-124.0	0.60
	14-Apr-03	27.18	14.00	7.17	1.170	0.0	-118.0	0.26
	06-Oct-03	14.98	16.46	6.50	1.140	13.5	-127.0	5.34
	19-Apr-04	19.93	8.53	7.20	0.746	12.4	-126.0	0.00
	12-Oct-04	21.06	13.27	7.06	0.920	0.0	-131.0	6.32
<b>CW05-055</b> Screened Interval = 45-55 ft bgs Ground Surface Elevation = 791.17 ft MSL	23-Oct-98	26.55	12.40	6.67	0.920	0.0	-62.9	0.94
	19-Apr-99	26.42	12.40	8.40	1.040	0.2	-193.4	0.11
	05-Oct-99	15.53	13.90	6.50	0.921	0.0	-71.1	0.00
	17-Apr-00	10.12	12.10	7.17	0.960	0.0	-70.9	1.51
	31-Oct-00	22.48	13.60	7.02	0.960	12.0	-65.3	1.15
	09-Apr-01	21.91	13.10	7.22	1.060	0.0	-40.6	0.20
	11-Oct-01	23.94	15.92	6.91	1.221	66.0	-66.7	9.26
	24-Apr-02	19.91	12.50	7.22	1.070	0.0	-121.0	1.51
	14-Oct-02	26.02	13.09	7.07	1.050	5.7	-108.0	0.76
	14-Apr-03	28.92	13.10	7.10	1.160	39.2	-116.0	0.00
	07-Oct-03	17.31	12.66	6.90	0.937	12.1	-113.0	0.40
	26-Apr-04	22.50	12.29	6.91	0.904	6.0	-109.0	0.00
	14-Oct-04	23.30	12.71	6.92	1.130	4.2	-134.0	0.91
<b>CW05-085</b> Screened Interval = 75-85 ft bgs Ground Surface Elevation = 790.78 ft MSL	21-Oct-98	27.13	12.20	7.00	1.040	0.0	-84.9	1.76
	21-Apr-99	27.47	11.60	7.08	0.702	NA	-55.7	0.09
	04-Oct-99	15.87	12.30	6.52	1.100	0.0	-54.0	ERR
	17-Apr-00	10.63	12.00	6.99	1.040	0.0	-98.2	ERR
	02-Nov-00	24.04	12.40	6.86	0.698	5.0	-41.0	0.22
	10-Apr-01	22.23	12.40	6.80	1.120	0.0	77.2	0.04
	16-Oct-01	22.66	10.94	6.91	1.365	0.0	-57.1	1.33
	25-Apr-02	20.84	11.60	7.01	1.150	0.0	-92.0	1.59
	16-Oct-02	25.65	12.38	7.17	1.130	3.5	-105.0	0.90
	14-Apr-03	29.56	12.40	7.18	1.190	7.2	-101.0	1.38
	06-Oct-03	17.61	12.97	6.48	1.150	1.7	-114.0	6.69
	19-Apr-04	21.98	13.19	6.87	1.060	10.4	-100.0	2.85
	12-Oct-04	23.38	12.33	6.99	0.970	0.0	-129.0	9.72
<b>CW07-055</b> Screened Interval = 44.5-54.5 ft bgs Ground Surface Elevation = 789.60 ft MSL	09-Apr-01	16.72	13.80	7.16	0.933	0.0	-39.1	0.15
	11-Oct-01	17.56	13.09	6.84	1.130	0.0	-94.2	6.67
	24-Apr-02	15.58	13.20	6.84	1.050	0.0	-77.0	0.35
	14-Oct-02	19.40	12.48	7.04	1.020	5.1	-98.0	1.92
	14-Apr-03	22.72	12.80	7.11	1.110	1.8	-104.0	1.10
	07-Oct-03	14.99	13.14	7.01	1.080	19.0	-97.0	0.84
	26-Apr-04	19.18	11.95	6.96	0.848	19.8	-85.0	0.00
	21-Oct-04	19.25	12.41	7.08	1.040	2.5	-136.0	1.95
<b>CW10-055</b> Screened Interval = 45-55 ft bgs Ground Surface Elevation = 791.80 ft MSL	09-Apr-01	22.56	13.30	7.43	0.686	25.0	273.7	14.91
	11-Oct-01	23.56	12.50	6.75	0.931	2.9	-76.9	0.58
	24-Apr-02	21.58	12.70	6.81	1.050	0.0	-76.0	0.00
	14-Oct-02	27.86	12.48	7.11	0.895	5.0	-89.0	0.67
	14-Apr-03	33.59	12.60	6.98	1.060	0.0	-100.0	0.00
	13-Oct-03	19.54	12.79	6.78	1.110	10.0	-112.0	5.95
	21-Apr-04	23.70	11.70	7.10	1.070	79.8	-100.0	5.76
	14-Oct-04	24.26	12.35	6.80	1.150	7.5	-121.0	0.00
<b>HD-11</b> Screened Interval = 71-81 ft bgs Ground Surface Elevation = 789.0 ft MSL	28-Oct-98	24.55	12.40	6.92	0.990	169	-94.3	0.55
	22-Apr-99	23.98	13.80	7.31	0.941	7.0	81.2	1.38
	05-Oct-99	13.97	13.30	6.67	1.000	5.0	-68.3	0.20
	18-Apr-00	8.64	14.10	7.37	1.000	10.0	-358.0	1.26
	02-Nov-00	21.76	12.70	6.87	0.637	2.0	-123.3	0.19
	10-Apr-01	19.84	12.90	7.24	1.060	3.0	-87.6	0.22
	16-Oct-01	21.92	11.65	7.03	1.042	538	-43.5	4.88
	25-Apr-02	18.46	11.50	6.93	1.210	0.0	-112.0	0.00
	16-Oct-02	24.36	12.30	7.11	1.070	3.5	-125.0	0.23
	14-Apr-03	29.24	12.90	7.04	1.140	0.0	-125.0	0.00
	08-Oct-03	16.00	13.49	7.05	0.630	9.2	-149.0	0.00
	21-Apr-04	20.44	12.66	7.00	1.100	11.7	-123.0	0.12
	14-Oct-04	21.40	12.11	6.79	1.180	3.8	-145.0	0.00

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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
<b>HD-12S</b> Screened Interval = 14-24 ft bgs Ground Surface Elevation = 790.0 ft MSL	05-Oct-99	13.47	12.60	6.86	1.050	1.0	-5.0	0.79
	18-Apr-00	10.12	11.50	7.06	1.300	0.0	-1.0	1.78
	01-Nov-00	BTP	12.40	6.80	0.990	0.0	-37.2	1.34
	10-Apr-01	BTP	13.20	6.96	0.977	0.0	-32.5	0.05
	18-Oct-01	BTP	12.27	6.86	1.173	0.0	-7.2	0.50
	24-Apr-02	16.92	11.40	6.97	0.950	6.1	126.0	2.59
	16-Oct-02	BTP	12.74	7.04	0.924	0.0	62.0	3.74
	14-Apr-03	BTP	Well dry - no sample collected		—	—	—	—
	08-Oct-03	14.92	12.09	6.92	0.553	22.10	50.0	0.00
	21-Apr-04	BTP	11.56	7.03	1.00	10.50	7.0	5.16
	14-Oct-04	BTP	12.65	6.84	1.15	0.00	29.0	5.14
<b>HD-12M</b> Screened Interval = 44-54 ft bgs Ground Surface Elevation = 790.0 ft MSL	28-Oct-98	24.10	12.20	6.92	0.980	15.0	-89.8	0.17
	22-Apr-99	23.33	12.30	7.09	0.649	NA	-66.5	0.11
	05-Oct-99	14.28	11.80	7.13	1.000	5.0	-25.9	0.54
	18-Apr-00	9.03	11.20	7.14	0.950	0.0	-19.4	1.65
	01-Nov-00	22.38	11.80	6.88	0.960	0.0	-72.8	0.22
	10-Apr-01	19.64	12.70	7.08	0.990	6.0	-77.7	0.09
	18-Oct-01	22.66	11.67	7.00	1.111	6.9	-71.1	0.59
	24-Apr-02	17.68	12.00	7.01	1.010	2.3	-126.0	1.46
	15-Oct-02	23.84	11.52	7.14	1.120	0.0	-118.0	0.00
	14-Apr-03	28.68	12.80	7.00	1.070	0.0	-109.0	0.00
	08-Oct-03	15.74	11.73	7.00	0.576	12.0	-163.0	0.00
	21-Apr-04	20.09	12.47	7.03	1.000	13.2	-112.0	1.31
	14-Oct-04	21.10	11.50	6.77	0.994	0.0	-126.0	1.73
<b>HD-13S</b> Screened Interval = 22.5-32.5 ft bgs Ground Surface Elevation = 787.0 ft MSL	26-Oct-98	22.45	13.30	7.12	0.980	44.0	-47.1	6.17
	22-Apr-99	21.53	13.60	7.10	1.030	24.0	13.5	3.90
	05-Oct-99	11.81	15.20	6.70	0.920	22.0	19.9	4.67
	17-Apr-00	5.71	17.00	7.26	0.940	81.0	-235.0	2.44
	01-Nov-00	18.36	12.30	7.40	0.940	0.0	-66.5	5.39
	11-Apr-01	16.10	13.40	6.96	1.000	5.0	-68.2	5.44
	18-Oct-01	19.79	13.42	6.93	1.229	57.0	-21.7	1.28
	24-Apr-02	15.61	11.90	6.74	0.980	3.2	-26.0	0.00
	15-Oct-02	22.08	12.53	7.17	1.190	0.5	-68.0	1.24
	14-Apr-03	24.95	14.83	7.16	1.310	168	-25.0	19.99
	08-Oct-03	13.51	13.21	6.77	1.170	23.2	-64.0	0.26
	21-Apr-04	18.10	13.15	7.12	1.040	18.2	-102.0	3.29
	14-Oct-04	19.07	11.57	6.81	1.160	2.8	-111.0	0.75
<b>MAD-MON-127 (HD-13D)</b> Screened Interval = 96-106 ft bgs Ground Surface Elevation = 787.0 ft MSL	17-Apr-00	6.93	13.90	7.40	0.940	5.0	-274.0	1.26
	01-Nov-00	19.21	12.20	7.43	0.950	0.0	-105.0	0.93
	11-Apr-01	17.16	13.00	7.00	1.010	0.0	-107.6	0.23
	18-Oct-01	19.10	12.66	7.01	132.888	8.9	-103.2	0.73
	24-Apr-02	16.48	12.40	6.96	1.240	0.0	-113.0	0.44
	15-Oct-02	22.91	12.11	7.24	1.240	2.4	-130.0	0.38
	14-Apr-03	25.85	13.77	7.35	1.260	0.0	-114.0	0.76
	08-Oct-03	14.36	13.26	6.98	1.230	4.4	-172.0	0.35
	21-Apr-04	18.91	12.44	7.21	1.090	5.7	-137.0	0.04
	14-Oct-04	19.91	11.59	6.91	1.210	0.0	-140.0	4.41
<b>MW131M (HSA-4A)</b> Screened Interval = 58.3-68.3 ft bgs Ground Surface Elevation = 786.5 ft MSL	26-Oct-98	20.15	12.30	7.06	0.980	24.0	-96.4	0.24
	21-Apr-99	19.62	13.30	8.26	0.950	24.6	-500.1	0.79
	04-Oct-99	9.65	18.80	7.08	0.980	42.0	9.3	0.20
	17-Apr-00	3.98	11.80	7.27	1.320	70.0	-29.3	1.79
	02-Nov-00	16.20	12.30	7.20	0.990	0.0	-89.0	0.22
	10-Apr-01	15.41	12.60	6.93	1.030	9.0	-83.8	0.62
	16-Oct-01	17.31	11.66	6.89	0.971	8.8	-80.3	2.53
	25-Apr-02	13.98	11.30	6.93	0.799	0.2	-113.0	0.00
	16-Oct-02	19.84	12.25	6.91	0.969	0.0	-135.0	0.00
	14-Apr-03	22.85	12.07	7.11	1.170	22.8	-102.0	2.16
	08-Oct-03	11.33	12.55	6.84	0.674	0.0	-164.0	0.29
	21-Apr-04	15.86	11.99	6.93	0.990	11.9	-146.0	1.70
	14-Oct-04	16.89	12.14	6.82	1.090	16.7	-178.0	0.17
<b>MW131S (HSA-4B)</b> Screened Interval = 22.3-32.3 ft bgs Ground Surface Elevation = 786.7 ft MSL	26-Oct-98	NR	13.00	7.01	0.920	25.0	-84.1	0.10
	21-Apr-99	NR	13.40	8.30	0.920	29.0	-454.8	1.03
	05-Oct-99	NR	12.00	6.83	1.070	16.0	96.3	0.27
	17-Apr-00	NR	12.10	6.94	0.979	101.0	-11.4	ERR
	01-Nov-00	NR	13.60	7.19	0.940	0.0	-41.4	0.39
	10-Apr-01	NR	12.30	6.87	0.970	0.0	-23.0	9.87
	18-Oct-01	NR	11.84	6.68	117.387	5.1	-39.6	0.74
	24-Apr-02	NR	12.00	6.95	0.698	1.3	-13.0	0.00
	15-Oct-02	NR	12.67	6.96	1.130	0.8	-103.0	0.35
	14-Apr-03	NR	13.20	7.06	1.190	24.1	-73.0	1.15
	08-Oct-03	NR	12.55	6.77	0.881	20.7	-81.0	0.70
	21-Apr-04	NR	11.99	6.97	0.990	16.5	-102.0	4.36
	14-Oct-04	NR	12.46	6.79	1.110	79.6	-112.0	0.32

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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
<b>MW132S (HSA-5)</b> Screened Interval = 38.5-48.5 ft bgs Ground Surface Elevation = 788.8 ft MSL	26-Oct-98	24.35	12.00	6.99	0.930	0.0	20.9	0.07
	22-Apr-99	23.20	12.30	6.97	0.922	9.0	133.5	0.26
	05-Oct-99	13.05	11.30	7.07	0.976	1.0	23.4	0.18
	18-Apr-00	8.09	11.20	7.24	0.990	13.0	-175.0	1.56
	02-Nov-00	21.09	11.40	6.82	0.566	5.0	58.2	0.13
	10-Apr-01	19.23	13.00	6.87	0.783	0.0	193.3	13.57
	16-Oct-01	21.53	11.38	6.98	0.997	0.0	40.4	2.15
	24-Apr-02	17.95	11.90	7.15	0.969	0.6	-35.0	1.90
	16-Oct-02	24.34	11.96	7.07	0.929	6.6	2.0	0.00
	14-Apr-03	29.70	11.50	6.81	1.080	0.0	70.0	0.00
	08-Oct-03	15.19	12.80	6.92	1.090	8.6	13.0	0.00
	21-Apr-04	20.19	11.85	6.87	1.030	7.3	-11.0	1.58
	14-Oct-04	20.95	11.82	6.88	1.090	9.6	-54.0	1.49
<b>CW3-77</b> Screened Interval = 66.8-76.8 ft bgs Ground Surface Elevation = 789.14 ft MSL	21-Oct-98	31.31	16.70	6.76	0.543	18.0	93.8	ERR
	21-Apr-99	32.65	12.40	7.39	0.641	5.0	255.9*	4.62
	13-Oct-99	23.51	15.60	6.68	0.807	9.0	20.6	1.06
	25-Apr-00	23.54	13.40	7.27	0.966	6.0	143.0	1.77
	18-Oct-00	24.06	15.00	6.90	0.481	2.0	38.6	0.31
	16-Apr-01	24.01	13.80	6.96	0.682	0.0	151.2	2.72
	12-Oct-01	27.87	15.07	7.15	0.853	0.0	3.7	4.52
	17-Apr-02	26.55	15.00	7.26	0.727	4.3	96.0	1.73
	02-May-02 <sup>B</sup>	26.22	13.30	6.92	0.693	1.5	157.0	5.11
	16-Oct-02	28.81	12.78	7.42	0.708	2.9	37.0	0.41
	15-Apr-03	34.75	16.70	7.32	0.759	0.0	106.0	3.96
	06-Oct-03	24.30	14.55	6.75	0.800	2.9	77.0	7.04
	19-Apr-04	27.54	12.47	7.14	0.788	23.7	99.0	11.36
	12-Oct-04	25.80	16.05	7.22	0.594	0.0	48.0	0.00
<b>CHP4-MW01</b> Screened Interval = 36-46 ft bgs Ground Surface Elevation = 835.38 ft MSL	22-Apr-98	27.67	15.70	7.03	1.610	304.0	-44.4	4.74
	16-Oct-98	27.63	16.90	6.99	1.550	71.0	-38.0	3.25
	15-Apr-99	27.17	16.20	8.37	1.780	15.0	-72.5	4.14
	06-Oct-99	29.13	16.20	6.49	1.690	300.0	25.2	3.72
	18-Apr-00	27.53	15.40	6.77	1.820	157.0	-58.7	3.97
	17-Oct-00	27.50	15.80	7.18	1.830	-10*	-13.8	4.70
	10-Apr-01	27.78	15.90	7.10	1.610	2.0	-27.4	4.18
	11-Oct-01	26.79	17.50	6.72	2.057	71.0	-38.8	5.16
	19-Apr-02	25.91	15.80	6.91	2.290	7.5	-30.0	2.57
	15-Oct-02	27.11	16.56	7.17	1.990	1.1	-78.0	3.52
	21-Apr-03	25.93	15.90	7.06	1.970	8.8	-62.0	3.91
	06-Oct-03	25.51	16.30	6.48	2.110	11.3	-67.0	7.74
	13-Apr-04	25.35	14.20	6.41	1.820	0.0	-30.0	19.99
	19-Oct-04	26.79	15.59	6.93	1.940	11.8	-71.0	3.57
<b>GR-330</b> Screened Interval = 39.5-49.5 ft bgs Ground Surface Elevation = 841.80 ft MSL	24-Apr-98	33.19	14.40	7.03	0.970	1.0	-129.3	2.61
	16-Oct-98	33.09	14.20	7.01	0.970	13.0	9.3	2.93
	15-Apr-99	32.72	13.90	8.30	1.050	0.0	601.1	3.48
	06-Oct-99	34.49	15.90	6.45	0.950	21.0	42.2	1.96
	24-Apr-00	33.87	15.10	7.27	0.904	10.0	NA	2.49
	20-Oct-00	33.89	15.60	7.18	0.990	0.0	87.1	1.96
	11-Apr-01	34.06	14.70	6.77	0.741	0.0	133.4	1.47
	11-Oct-01	32.39	15.49	6.77	1.084	17.4	74.2	5.33
	23-Apr-02	32.70	16.00	7.57	1.310	2.8	141.0	4.71
	01-Oct-02	32.29	17.85	6.90	1.180	17.2	80.0	7.54
	21-Apr-03	31.85	15.20	7.01	1.200	11.2	20.0	3.91
	06-Oct-03	31.21	15.72	6.44	1.170	18.3	21.0	10.64
	26-Apr-04	31.23	15.87	6.88	0.968	10.8	47.0	7.20
	19-Oct-04	32.53	14.84	6.93	1.190	15.1	25.0	8.62
<b>GR-333</b> Screened Interval = 25.1-35.1 ft bgs Ground Surface Elevation = 812.40 ft MSL	22-Apr-98	14.45	15.10	7.62	1.130	0.0	77.8	5.82
	27-Oct-98	15.35	16.00	6.52	0.859	31.0	4.8	6.00
	27-Apr-99	14.45	16.20	7.30	0.630	14.0	35.4	5.19
	06-Oct-99	16.31	15.70	7.25	1.040	2.0	54.7	4.82
	25-Apr-00	16.47	15.40	7.15	0.980	18.0	NA	4.29
	20-Oct-00	15.40	16.20	7.22	1.010	0.0	56.9	3.08
	18-Apr-01	14.43	14.70	7.19	1.290	0.0	6.0	3.16
	11-Oct-01	14.76	17.71	7.08	1.057	17.6	68.0	4.58
	24-Apr-02	14.69	15.50	7.26	0.992	3.0	118.0	3.75
	07-Oct-02	14.37	15.82	7.20	1.210	16.5	75.0	5.50
	23-Apr-03	16.76	15.80	6.86	1.160	15.8	29.0	1.12
	13-Oct-03	14.21	16.00	6.77	1.180	0.6	29.0	9.38
	28-Apr-04	13.70	16.83	7.01	1.160	4.1	7.0	6.07
	20-Oct-04	16.47	15.95	7.23	1.360	203.0	-28.0	6.47

**Table 6-1**  
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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
<b>GR-334</b> Screened Interval = 145.0-155.0 ft bgs Ground Surface Elevation = 812.51 ft MSL	22-Apr-98	13.85	15.60	7.72	0.815	0.0	-145.1	0.93
	28-Oct-98	14.62	15.00	6.56	0.603	0.0	-104.7	0.27
	22-Apr-99	13.76	15.50	8.62	0.800	0.6	-240.6	0.33
	06-Oct-99	15.59	15.20	7.32	0.758	7.0	-113.5	0.13
	25-Apr-00	15.78	14.30	7.26	0.775	0.0	NA	1.54
	20-Oct-00	14.67	14.80	7.33	0.891	0.0	-143.1	0.05
	18-Apr-01	13.72	14.40	7.25	0.950	0.0	-120.1	0.05
	11-Oct-01	14.08	16.30	7.17	0.763	0.0	-115.9	0.49
	24-Apr-02	13.98	14.10	7.19	0.691	0.0	-134.0	0.00
	07-Oct-02	13.64	14.93	7.32	0.815	1.3	-140.0	0.81
	23-Apr-03	16.09	14.90	7.03	0.827	0.0	-149.0	0.00
	13-Oct-03	13.48	14.85	6.93	0.753	0.0	-158.0	3.98
	28-Apr-04	13.02	14.44	7.08	0.708	2.5	-127.0	8.48
	20-Oct-04	15.76	15.16	7.28	0.868	4.5	-170.0	1.32
<b>OU10-MW-03S</b> Screened Interval = 27.8-37.8 ft bgs Ground Surface Elevation = 831.40 ft MSL	19-Apr-00**	26.70	14.40	7.50	0.930	off scale	-120.0	6.55
	17-Oct-00	27.81	14.70	7.49	0.688	10.0	216.3	5.35
	11-Apr-01	28.04	14.90	6.90	0.679	0.0	189.9	5.62
	15-Oct-01	28.03	15.44	6.95	1.064	0.0	83.8	6.95
	19-Apr-02	24.84	15.10	7.10	1.100	9.3	172.0	5.59
	04-Oct-02	26.11	18.84	7.33	0.940	3.9	162.0	6.37
	07-Apr-03	26.65	14.25	7.31	0.992	7.1	153.0	4.46
	07-Oct-03	24.90	15.28	7.15	0.896	0.0	158.0	5.59
	20-Apr-04	23.95	14.52	7.43	0.914	5.3	114.0	5.89
	14-Oct-04	26.23	15.04	6.94	0.863	1.6	260.0	5.39
<b>OU10-MW-06D</b> Screened Interval = 140.4-150.4 ft bgs Ground Surface Elevation = 829.73 ft MSL	20-Apr-98	27.46	13.60	7.55	1.030	0.0	-94.7	5.04
	23-Oct-98	29.29	14.10	5.15	0.940	23.0	-143.1	8.50
	16-Apr-99	27.96	10.50	8.70	0.930	0.0	-110.1	2.52
	08-Oct-99	29.85	15.60	7.22	0.607	0.0	173.9	3.65
	21-Apr-00	27.56	11.90	7.18	0.940	0.0	-34.3	3.47
	17-Oct-00	28.79	13.90	7.42	0.733	0.0	-27.3	1.62
	11-Apr-01	28.52	13.80	7.08	0.908	1.0	-81.8	0.82
	15-Oct-01	29.09	14.22	7.03	1.060	2.1	-44.9	2.27
	19-Apr-02	26.63	14.30	7.05	1.120	5.1	-123.0	1.86
	04-Oct-02	27.62	14.95	7.11	0.933	9.0	-113.0	0.00
	07-Apr-03	27.00	13.50	7.20	0.980	0.0	-88.0	0.00
	14-Oct-03	27.31	14.07	7.07	0.938	0.0	-140.0	2.70
	20-Apr-04	26.59	13.79	7.27	0.817	3.7	-138.0	2.66
	14-Oct-04	28.10	14.76	6.93	0.922	0.0	-166.0	0.70
<b>OU10-MW-06S</b> Screened Interval = 52-62 ft bgs Ground Surface Elevation = 830.07 ft MSL	24-Apr-98	12.84	14.70	7.44	0.911	0.0	130.0	1.59
	23-Oct-98	27.45	14.90	4.56	0.827	55.0	107.7	3.82
	16-Apr-99	26.58	14.10	8.57	0.936	6.0	-139.1	1.01
	06-Oct-99	28.59	13.90	7.24	0.876	5.0	76.0	1.58
	21-Apr-00	26.49	13.00	7.15	1.270	0.0	68.6	1.74
	17-Oct-00	27.69	14.10	7.43	0.672	0.0	112.0	1.60
	11-Apr-01	27.74	14.30	7.14	0.819	1.0	53.3	0.31
	15-Oct-01	28.06	15.06	7.04	0.985	24.0	40.3	2.84
	19-Apr-02	24.83	15.90	7.11	1.000	3.4	99.0	2.73
	04-Oct-02	26.10	14.73	7.05	0.940	3.5	284.0	1.73
	07-Apr-03	25.05	14.40	7.18	0.913	0.0	99.0	0.40
	14-Oct-03	25.35	14.03	6.92	0.920	0.0	180.0	4.45
	20-Apr-04	24.21	14.20	7.23	0.761	1.1	21.0	6.75
	14-Oct-04	26.31	14.96	6.94	0.850	0.0	80.0	2.40
<b>OU10-MW-11D</b> Screened Interval = 87.9-97.9 ft bgs Ground Surface Elevation = 812.55 ft MSL	23-Apr-98	11.65	14.50	7.30	1.260	0.0	161.7	2.03
	20-Oct-98	12.23	14.20	6.60	0.833	3.0	181.8	0.77
	16-Apr-99	11.60	13.20	7.03	0.893	65.0	229.3	0.90
	06-Oct-99	13.56	16.00	6.91	1.520	22.0	129.2	0.39
	18-Apr-00	11.49	13.80	7.19	1.270	0.0	142.8	1.80
	18-Oct-00	12.51	14.80	6.67	0.545	0.0	105.9	0.29
	16-Apr-01	11.64	13.40	6.99	0.840	0.0	93.9	0.17
	12-Oct-01	11.90	17.02	6.91	2.734	82.0	241.6	2.43
	22-Apr-02	11.70	13.90	7.66	0.830	0.0	322.0	0.54
	04-Oct-02	11.49	17.25	7.17	1.030	2.1	171.0	1.47
	10-Apr-03	12.98	14.00	7.04	0.988	0.0	100.0	0.00
	06-Oct-03	10.97	15.24	6.98	0.916	9.4	91.0	1.33
	19-Apr-04	10.41	15.42	7.09	0.937	8.6	79.0	3.65
	12-Oct-04	11.81	14.79	7.12	0.969	0.5	106.0	1.47

**Table 6-1**  
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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
<b>OU10-MW-11S</b> Screened Interval = 53.3-63.3 ft bgs Ground Surface Elevation = 812.57 ft MSL	27-Apr-98	11.48	13.70	7.13	0.772	1.0	24.4	3.36
	20-Oct-98	11.37	14.30	6.42	0.820	3.0	214.2	3.30
	21-Apr-99	11.70	13.30	7.10	0.805	19.0	260.7*	3.25
	13-Oct-99	13.31	16.70	6.56	0.820	0.0	146.4	3.31
	18-Apr-00	11.28	14.10	7.24	1.220	0.0	180.4	5.16
	18-Oct-00	13.20	15.60	6.67	0.559	1.0	117.5	3.51
	16-Apr-01	11.58	13.80	6.97	0.862	0.0	94.5	3.58
	12-Oct-01	11.51	15.96	6.88	2.659	11.6	261.8	3.46
	17-Apr-02	10.85	15.10	6.89	0.942	0.0	171.0	1.77
	16-Oct-02	11.32	14.77	7.13	0.914	0.0	142.0	3.36
	15-Apr-03	10.56	15.10	7.11	1.020	0.0	87.0	3.21
	06-Oct-03	10.45	15.54	7.01	0.902	-1.0	134.0	3.38
	19-Apr-04	9.67	14.76	7.09	0.946	7.9	78.0	3.16
	12-Oct-04	11.23	15.27	7.14	0.953	4.2	104.0	3.19
<b>OU10-MW-19D</b> Screened Interval = 72.1-82.1 ft bgs Ground Surface Elevation = 834.32 ft MSL	24-Apr-98	33.58	16.80	7.30	1.010	0.0	231.6	5.21
	20-Oct-98	34.44	14.80	6.66	0.916	0.0	173.2	4.13
	19-Apr-99	33.69	14.60	7.27	0.683	15.0	223.1	4.60
	06-Oct-99	35.35	15.10	7.14	1.070	2.0	81.2	4.87
	19-Apr-00	33.56	14.70	7.24	1.010	2.0	-116.0	5.33
	20-Oct-00	34.40	15.30	6.73	0.561	1.0	177.4	5.36
	10-Apr-01	34.41	15.50	7.00	1.040	0.0	36.1	4.73
	10-Oct-01	35.41	16.30	7.00	1.263	0.0	43.4	5.15
	24-Apr-02	32.72	15.50	7.27	1.040	0.2	107.0	5.51
	30-Sep-02	33.37	16.26	7.01	1.210	1.9	132.0	4.76
	10-Apr-03	35.02	14.70	6.99	1.100	0.4	120.0	3.32
	02-Oct-03	32.90	14.85	7.02	0.610	0.7	91.0	4.31
	26-Apr-04	32.64	15.20	6.94	0.966	1.2	99.0	6.57
	20-Oct-04	33.88	15.13	7.27	1.100	8.1	94.0	4.71
<b>OU10-MW-21S</b> Screened Interval = 15.5-25.5 ft bgs Ground Surface Elevation = 804.09 ft MSL	27-Oct-98	8.10	15.50	6.57	0.736	4.0	81.0	1.46
	14-Apr-99	7.65	11.70	7.00	0.910	0.0	217.8	0.75
	07-Oct-99	8.62	15.10	7.34	0.626	1.0	207.8	0.02
	19-Apr-00	7.11	12.80	7.09	0.892	2.0	-64.0	1.00
	19-Oct-00	7.70	14.90	6.68	0.570	0.0	73.1	0.81
	18-Apr-01	6.89	11.70	6.86	1.240	0.0	86.7	1.64
	10-Oct-01	7.59	19.19	6.99	1.077	11.0	20.2	3.60
	24-Apr-02	7.82	13.20	7.29	0.859	1.8	295.0	0.64
	02-Oct-02	7.12	19.86	7.21	1.010	6.4	59.0	1.80
	16-Apr-03	7.27	12.40	7.07	1.060	0.0	53.0	1.02
	02-Oct-03	7.20	15.26	6.95	0.883	17.5	29.0	1.87
	15-Apr-04	6.92	12.27	7.03	0.970	0.0	50.0	6.18
	08-Oct-04	8.06	14.84	7.11	0.814	0.0	140.0	1.33
<b>OU10-MW-25S</b> Screened Interval = 36-46 ft bgs Ground Surface Elevation = 835.12 ft MSL	24-Apr-98	28.05	14.10	7.11	1.320	5.0	182.4	4.22
	20-Oct-98	27.80	15.10	6.72	0.765	0.0	76.3	2.48
	16-Apr-99	27.35	12.80	7.10	0.830	119.0	40.1	4.36
	06-Oct-99	29.75	14.20	7.23	0.786	15.0	94.0	3.29
	18-Apr-00	28.03	14.20	7.38	0.860	3.0	-81.0	5.25
	17-Oct-00	28.81	14.20	7.37	0.953	-10*	122.9	3.22
	12-Apr-01	28.81	15.30	6.89	0.796	0.0	76.4	3.69
	15-Oct-01	28.94	14.52	7.07	1.020	8.9	49.3	4.17
	22-Apr-02	25.67	12.60	6.67	0.898	0.0	250.0	1.62
	03-Sep-02	27.10	15.47	6.99	0.838	7.2	266.0	4.02
	09-Apr-03	27.36	13.40	7.13	1.020	13.1	154.0	3.31
	01-Oct-03	25.44	13.95	7.14	0.492	1.1	127.0	3.18
	12-Apr-04	24.91	13.02	7.12	0.794	0.0	145.0	1.71
	14-Oct-04	27.19	14.38	6.83	0.821	0.1	237.0	2.58
<b>NEA-MW37-1D</b> Screened Interval = 84.7-94.6 ft bgs Ground Surface Elevation = 810.49 ft MSL	27-Apr-98	10.30	13.70	7.31	0.892	0.0	41.3	1.14
	16-Oct-98	11.00	18.90	7.07	0.665	105.0	-112.4	8.77
	14-Apr-99	10.53	13.30	8.55	0.947	0.0	-240.0	0.11
	08-Oct-99	12.25	14.10	7.07	0.625	0.0	32.6	1.77
	19-Apr-00	9.05	13.30	7.05	0.897	1.0	-85.4	0.73
	19-Oct-00	10.12	16.30	6.71	0.565	-10*	-40.9	0.46
	18-Apr-01	9.35	13.40	6.86	1.220	0.0	364.0	0.09
	10-Oct-01	9.61	15.21	6.79	1.996	4.7	-42.1	3.84
	22-Apr-02	No access - area was restricted						
	02-Oct-02	8.98	16.78	7.17	0.995	1.1	-68.0	0.27
	16-Apr-03	8.75	14.30	7.05	1.010	0.0	-78.0	0.05
	02-Oct-03	8.65	15.18	6.96	1.010	9.5	-86.0	0.27
	15-Apr-04	8.09	13.31	7.01	0.972	1.5	-6.2	1.50
	08-Oct-04	9.58	14.56	7.12	0.841	0.0	-79.0	0.00



**Table 6-1**  
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Well Number	Date Sampled	Static Water Level (ft, TOC)	Temp. (C°)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
23-578-M Screened Interval = 31.5-41.5 ft bgs Ground Surface Elevation = 838.10 ft MSL	29-Oct-98	31.82	15.10	8.62	1.590	31.0	94.8	6.11
	20-Apr-99	31.40	15.90	8.75	1.410	2.0	-138.9	5.40
	06-Oct-99	33.42	16.50	6.40	1.510	22.0	155.7	3.88
	18-Apr-00	31.99	14.40	7.28	1.300	10.0	-53.9	6.21
	17-Oct-00	31.92	15.10	7.39	1.620	-10*	95.2	5.24
	10-Apr-01	32.33	15.50	7.09	1.560	0.0	34.7	6.04
	11-Oct-01	30.95	16.97	6.97	2.145	14.0	200.7	6.85
	22-Apr-02	30.09	13.30	7.02	2.060	1.7	121.0	4.85
	04-Oct-02	31.08	18.45	7.12	1.940	1.6	139.0	6.59
	07-Apr-03	32.10	14.31	7.23	1.640	6.9	144.0	5.79
	06-Oct-03	29.78	15.84	6.58	2.100	9.0	27.0	8.64
	13-Apr-04	29.60	13.98	6.41	1.820	0.0	75.0	19.67
	19-Oct-04	31.10	14.76	7.05	1.830	0.0	112.0	5.39

NR - No reading. Broken off water level probe obstructing well 131S.

DUP - Duplicate sample collected during a different purging event.

NA - Not available

\* or ERR - Meter not functioning correctly

\*\* - Wells SP11-MW08 and OU10-MW03 were sampled with a bailer for VOCs, then sampled at a later date with a pump for metals during the April 2000 sampling event.

<sup>A</sup> - Well 07-520-M was sampled for filtered metals and VOCs on 4/23/02, and was later sampled for total metals on 4/25/02.

<sup>B</sup> - Well CW-03-77 was sampled for VOCs on 4/17/02, and was later sampled for total metals on 5/02/02.

Note: When the Marksman well was sampled for metals in May 2002, field parameters were not taken.

BTP - Below top of pump

DO - Dissolved Oxygen

mg/L - milligrams per liter

ft, TOC - feet below top of casing

ft, MSL - feet, ref. Mean sea level

ft bgs - feet below ground surface

ORP - Oxygen Reduction Potential

C° - Degrees Celsius

SU - Standard Units

mV - millivolts

**Table 6-2**  
**Basewide LTM October 2004 and Historic Groundwater**  
**Sampling Results: VOCs**  
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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	MCL		5	1,000	700	10,000	5	70	5	5	2	NCL
B59-MW01	Bldg. 59	13-Oct-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		27-Apr-99	ND	ND	ND	ND	ND	ND	ND	0.36 J	ND	NS
		27-Apr-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		11-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		12-Oct-01	ND	ND	ND	ND	ND	ND	ND	0.26 J	ND	ND
		19-Apr-02	ND	ND	ND	ND	ND	ND	ND	0.34 J	ND	ND
		26-Sep-02	ND	ND	ND	ND	ND	ND	ND	1.6 J	ND	ND
		08-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07-Oct-03	ND	ND	ND	ND	ND	ND	ND	0.25 J	ND	ND
		13-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		15-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B59-MW02	Bldg. 59	08-Oct-98	ND	ND	ND	ND	(7.8 J)	(190)	ND	ND	(27)	NS
		27-Apr-99	ND	ND	ND	ND	(100 D)	(221.7 D)	ND	(13)	(36)	NS
	Duplicate	27-Apr-99	ND	ND	ND	ND	(65)	(141.3 J)	ND	(12)	(30)	NS
		27-Apr-00	ND	ND	ND	ND	3.0 JD	(200 D)	ND	(52 D)	(10 JD)	NS
		11-Apr-01	ND	ND	ND	ND	3.6 JD	(111.9 JD)	ND	(43 D)	(14 D)	ND
		17-Oct-01	ND	ND	ND	ND	3.9 JD	(291.8 JD)	ND	(230 D)	(16 D)	ND
		17-Apr-02	ND	ND	ND	ND	ND	(790 D)	ND	(520 D)	(33 D)	ND
		27-Sep-02	ND	ND	ND	ND	ND	(580 D)	ND	(660 D)	(26 D)	ND
		07-Apr-03	ND	ND	ND	ND	ND	(1200 D)	ND	(1100 D)	(37 JD)	ND
	Duplicate	07-Apr-03	ND	ND	ND	ND	ND	(1200 D)	ND	(1200 D)	(38 JD)	ND
		07-Oct-03	ND	ND	ND	ND	1.1 JD	(1104 D)	ND	(1400 D)	(54 D)	ND
		13-Apr-04	ND	ND	ND	ND	ND	(2444 D)	ND	(2800 D)	(41 D)	ND
	Duplicate	13-Apr-04	ND	ND	ND	ND	ND	(2435 D)	ND	(2900 D)	(39 D)	ND
		12-Oct-04	ND	ND	ND	ND	ND	(1607.4 D)	ND	(2300 D)	(57 D)	ND
B59-MW03	Bldg. 59	08-Oct-98	2.4	ND	ND	ND	ND	(170)	ND	(19)	(18)	NS
		08-Oct-98	2.2	ND	ND	ND	ND	(160)	ND	(18)	(16)	NS
	Duplicate	27-Apr-99	(8.2 J)	ND	ND	ND	(13)	(406)	ND	(510)	(69)	NS
		15-Jun-99	(6.0 J)	ND	ND	ND	(9.1)	(319)	ND	(430)	NR	NS
		27-Apr-00	1.4 JD	ND	ND	ND	2.9 JD	(190 D)	ND	(180 D)	(11 JD)	NS
		11-Apr-01	ND	ND	ND	ND	ND	(333 D)	ND	(150 D)	(39 D)	ND
		17-Oct-01	0.9 J D	ND	ND	ND	(6.0 D)	64.99 JD	ND	(22 D)	(5.7 D)	ND
		26-Apr-02	1.1 JD	ND	ND	ND	1.8 JD	(81.9 D)	ND	(22 D)	(20 D)	ND
		17-Oct-02	ND	ND	ND	ND	1.9 JD	63.6 D	ND	(16 D)	(14 D)	ND
	Duplicate	17-Oct-02	0.99 JD	ND	ND	ND	1.8 JD	61.2 D	ND	(16 D)	(14 D)	ND
		15-Apr-03	ND	ND	ND	ND	1.2 JD	(77.8 D)	ND	(16 D)	(26 D)	ND
		08-Oct-03	2.1 JD	ND	ND	ND	ND	(186.7 D)	ND	(100 D)	(53 D)	ND
	Duplicate	20-Apr-04	1.2	ND	ND	ND	0.46 J	(113.8 D)	ND	(47 D)	(30)	ND
		12-Oct-04	1.9	ND	ND	ND	0.70 J	(165.5 D)	ND	(42 D)	(25)	ND
B59-MW04	Bldg. 59	08-Oct-98	1.1	ND	0.16 J	0.35 J	ND	36	ND	(7.9)	(17)	NS
		27-Apr-99	ND	0.32 J	ND	ND	ND	5.2	ND	4.3	1.1	NS
		27-Apr-00	0.14 J	ND	ND	ND	ND	8.8	ND	3.3	(2.5)	NS
		11-Apr-01	Not sampled, wellhead damaged.				--	--	--	--	--	--
		17-Oct-01	ND	ND	ND	ND	ND	63.7 D	ND	0.85 J D	(11 D)	ND
		19-Apr-02	ND	ND	ND	ND	ND	5.58 J	ND	0.29 J	1.9	ND
		26-Sep-02	ND	ND	ND	ND	ND	5.52	ND	0.69 J	1.8	ND
		08-Apr-03	ND	ND	ND	ND	ND	8.26	ND	0.46 J	(5.7)	ND
		07-Oct-03	ND	ND	ND	ND	ND	7.07	ND	1.2 J	(2.0)	ND
	Duplicate	07-Oct-03	ND	ND	ND	ND	ND	6.74	ND	0.96 J	(2.1)	ND
		13-Apr-04	ND	ND	ND	ND	ND	1.88 J	ND	0.48 J	0.52 J	ND
		15-Oct-04	0.24 J	ND	ND	ND	ND	6.52	ND	0.42 J	(2.6)	ND
	Duplicate	15-Oct-04	ND	ND	ND	ND	ND	6.49	ND	0.43 J	(2.4)	ND
B79C/D-MW01	Bldg. 79	26-Feb-02	ND	ND	ND	ND	ND	8.76	ND	1.7	0.33	NS
		26-Sep-02	ND	ND	ND	ND	ND	9.67 J	ND	(18)	ND	ND
	Duplicate	16-Apr-03	ND	ND	ND	ND	ND	9.42 J	ND	(18)	ND	ND
		16-Apr-03	ND	ND	ND	ND	ND	9.02 J	ND	(17)	ND	ND
		06-Oct-03	ND	ND	ND	ND	ND	6.92 J	ND	(16)	0.28 J	ND
		28-Apr-04	ND	ND	ND	ND	ND	8.98	ND	(30)	0.41 J	ND
B79C/D-MW02	Bldg. 79	08-Oct-04	0.32 J	ND	ND	ND	ND	8.69	ND	(30)	0.38 J	ND
		25-Feb-02	ND	ND	ND	ND	ND	0.77	ND	(77)	ND	NS
		26-Sep-02	ND	ND	ND	ND	ND	ND	ND	(72 D)	ND	ND
		15-Apr-03	ND	ND	ND	ND	ND	ND	ND	(56 D)	ND	ND
		06-Oct-03	ND	ND	ND	ND	ND	ND	ND	(45 D)	ND	ND
		19-Apr-04	ND	ND	ND	ND	ND	ND	ND	(43 D)	ND	ND
		12-Oct-04	ND	ND	ND	ND	ND	ND	ND	(45 D)	ND	ND

**Table 6-2**  
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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	<b>MCL</b>		<b>5</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>NCL</b>
B79C/D-MW03	Bldg. 79 Duplicate	25-Feb-02	ND	ND	ND	ND	ND	0.44	ND	(69)	ND	NS
		25-Feb-02	ND	ND	ND	ND	ND	0.50	ND	(70)	ND	NS
	Duplicate	25-Sep-02	ND	ND	ND	ND	ND	ND	ND	(69 D)	ND	ND
		25-Sep-02	ND	ND	ND	ND	ND	ND	ND	(72 D)	ND	ND
		16-Apr-03	ND	ND	ND	ND	ND	ND	ND	(34 D)	ND	ND
		07-Oct-03	ND	ND	ND	ND	ND	ND	ND	(11)	ND	ND
		20-Apr-04	ND	ND	ND	ND	ND	ND	ND	(13)	ND	ND
		08-Oct-04	ND	ND	ND	ND	ND	0.44 J	ND	(40)	ND	ND
		08-Oct-04	ND	ND	ND	ND	ND	0.42 J	ND	(40)	ND	ND
B79C/D-MW04	Bldg. 79	25-Feb-02	ND	ND	ND	ND	ND	1.2	ND	(7.7)	ND	NS
		25-Sep-02	ND	ND	ND	ND	ND	1.0	ND	(23)	ND	ND
	Duplicate	16-Apr-03	ND	ND	ND	ND	ND	0.44 J	ND	(25)	ND	ND
		07-Oct-03	ND	ND	ND	ND	ND	0.55	ND	(25)	ND	ND
		07-Oct-03	ND	ND	ND	ND	ND	0.61	ND	(28)	ND	ND
		19-Apr-04	ND	ND	ND	ND	ND	0.56 JD	ND	(38 D)	ND	ND
		19-Apr-04	ND	ND	ND	ND	ND	0.51 JD	ND	(38 D)	ND	ND
		08-Oct-04	ND	ND	ND	ND	ND	0.71	ND	(45 D)	ND	ND
BS5 P-1	BS5	04-Jun-97	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		04-Nov-98	ND	ND	ND	ND	ND	ND	1.5	0.41 J	ND	NS
		19-Apr-99	ND	ND	ND	ND	ND	ND	1.6	0.32 J	ND	NS
		08-Oct-99	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
		26-Apr-00	ND	ND	ND	ND	ND	0.56	ND	ND	ND	NS
		20-Oct-00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
		19-Apr-01	ND	ND	ND	ND	ND	0.38 J	ND	ND	ND	ND
		11-Oct-01	ND	ND	ND	ND	ND	0.69 J	ND	ND	ND	ND
		25-Apr-02	ND	ND	ND	ND	ND	0.85 J	0.15 J	ND	ND	ND
		01-Oct-02	ND	ND	ND	ND	ND	0.78 J	ND	ND	ND	ND
		11-Apr-03	ND	ND	ND	ND	ND	0.99 J	ND	ND	ND	ND
		07-Oct-03	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND
		27-Apr-04	ND	0.18 J	ND	ND	ND	1.5	ND	ND	ND	ND
		19-Oct-04	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND
BS5 P-2	BS5	04-Jun-97	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		04-Nov-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		19-Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		08-Oct-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		26-Apr-00	ND	0.33 J	ND	ND	ND	ND	ND	ND	ND	NS
		20-Oct-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		19-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		25-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		01-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		11-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		27-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		19-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS5 P-3	BS5	06-Jun-97	ND	ND	ND	ND	ND	ND	(23)	ND	ND	NS
		04-Nov-98	ND	ND	ND	ND	ND	ND	(29)	0.27 J	ND	NS
	Duplicate	04-Nov-98	ND	ND	ND	ND	ND	ND	(33)	0.30 J	ND	NS
		19-Apr-99	ND	ND	ND	ND	ND	ND	(30)	ND	ND	NS
		08-Oct-99	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	Duplicate	26-Apr-00	ND	ND	ND	ND	ND	ND	(25)	ND	ND	NS
		26-Apr-00	ND	ND	ND	ND	ND	ND	(24)	ND	ND	NS
		20-Oct-00	ND	ND	ND	ND	ND	ND	(22)	0.19 J	ND	ND
	Duplicate	20-Oct-00	ND	ND	ND	ND	ND	ND	(20)	ND	ND	ND
		19-Apr-01	ND	ND	ND	ND	ND	ND	(19)	ND	ND	ND
		11-Oct-01	ND	ND	ND	ND	ND	ND	(23)	0.19 J	ND	ND
	Duplicate	25-Apr-02	ND	ND	ND	ND	ND	ND	(24)	ND	ND	ND
		01-Oct-02	ND	ND	ND	ND	ND	ND	(25)	ND	ND	ND
		11-Apr-03	ND	ND	ND	ND	ND	ND	(22)	ND	ND	ND
		07-Oct-03	ND	ND	ND	ND	ND	ND	(23)	ND	ND	ND
		27-Apr-04	ND	ND	ND	ND	ND	ND	(21)	ND	ND	ND
		19-Oct-04	ND	ND	ND	ND	ND	ND	(24)	ND	ND	ND

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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	MCL		5	1,000	700	10,000	5	70	5	5	2	NCL
BS5 P-4	BS5	06-Jun-97	ND	ND	ND	ND	ND	ND	(29)	ND	ND	NS
		04-Nov-98	ND	ND	ND	ND	ND	ND	(33)	0.34 J	ND	NS
		19-Apr-99	ND	ND	ND	ND	ND	ND	(20)	ND	ND	NS
		08-Oct-99	ND	ND	ND	ND	ND	ND	(31)	ND	ND	NS
		08-Oct-99	ND	ND	ND	ND	ND	ND	(30)	0.39 J	ND	NS
		26-Apr-00	ND	ND	ND	ND	ND	ND	(25)	ND	ND	NS
		20-Oct-00	0.35 J	0.33 J	ND	ND	ND	ND	(23)	ND	ND	ND
		20-Apr-01	ND	ND	ND	ND	ND	ND	(17)	ND	ND	ND
		20-Apr-01	ND	ND	ND	ND	ND	ND	(17)	ND	ND	ND
		10-Oct-01	ND	ND	ND	ND	ND	ND	(24)	0.22 J	ND	ND
		10-Oct-01	ND	ND	ND	ND	ND	ND	(26)	ND	ND	ND
		25-Apr-02	ND	ND	ND	ND	ND	ND	(23)	0.18 J	ND	ND
		25-Apr-02	ND	ND	ND	ND	ND	ND	(23)	0.14 J	ND	ND
		01-Oct-02	ND	ND	ND	ND	ND	ND	(24)	ND	ND	ND
		01-Oct-02	ND	ND	ND	ND	ND	ND	(23)	ND	ND	ND
		11-Apr-03	ND	ND	ND	ND	ND	ND	(21)	ND	ND	ND
		11-Apr-03	ND	ND	ND	ND	ND	ND	(21)	ND	ND	ND
		07-Oct-03	ND	ND	ND	ND	ND	ND	(16)	ND	ND	ND
		27-Apr-04	ND	ND	ND	ND	ND	ND	(19)	ND	ND	ND
		27-Apr-04	ND	ND	ND	ND	ND	ND	(20)	ND	ND	ND
		19-Oct-04	ND	ND	ND	ND	ND	ND	(25)	ND	ND	ND
NEA-MW27-3I	OU2 (OU10)	30-Mar-93	ND	ND	ND	ND	ND	ND	(21)	ND	ND	NS
		25-Aug-93	ND	ND	ND	ND	ND	ND	(22)	ND	ND	NS
		07-Dec-93	ND	ND	ND	ND	ND	ND	(20)	ND	ND	NS
		27-Apr-98	ND	ND	ND	ND	ND	ND	(26)	0.17 J	ND	NS
		28-Oct-98	ND	ND	ND	ND	ND	ND	(18)	ND	ND	NS
		21-Apr-99	ND	ND	ND	ND	ND	ND	(11)	ND	ND	NS
		13-Oct-99	ND	ND	ND	ND	ND	ND	(17)	ND	ND	NS
		19-Apr-00	ND	ND	ND	ND	ND	0.27 J	(23)	0.30 J	ND	NS
		18-Oct-00	ND	0.21 J	ND	ND	ND	ND	(15)	ND	ND	ND
		16-Apr-01	ND	ND	ND	ND	ND	ND	(16)	ND	ND	ND
		12-Oct-01	ND	ND	ND	ND	ND	ND	(11)	0.14 J	ND	ND
		17-Apr-02	ND	ND	ND	ND	ND	ND	(12)	0.17 J	ND	ND
		16-Oct-02	ND	ND	ND	ND	ND	ND	(11)	ND	ND	ND
		15-Apr-03	ND	ND	ND	ND	ND	ND	(11)	ND	ND	ND
		06-Oct-03	ND	ND	ND	ND	ND	ND	(7.5)	ND	ND	ND
		19-Apr-04	ND	ND	ND	ND	ND	ND	(5.6)	ND	ND	ND
		12-Oct-04	ND	ND	ND	ND	ND	ND	(7.1)	ND	ND	ND
NEA-MW34-2S	OU2	15-Dec-92	ND	ND	ND	ND	ND	ND	ND	(15)	ND	NS
		26-Apr-93	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		23-Apr-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		23-Oct-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		19-Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		07-Oct-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		07-Oct-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		19-Apr-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		19-Apr-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		19-Oct-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		17-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10-Oct-01	No access to well - restricted area									
		17-Apr-02	No access to well - restricted area									
		16-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		16-Apr-03	No access to well - restricted area									
FTA2:MW02C	OU3	02-Oct-03	ND	0.19 J	ND	ND	ND	ND	ND	ND	ND	ND
		15-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		08-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		13-Jul-93	(6.0)	ND	2.0	14.0	ND	ND	ND	ND	ND	NS
		24-Jan-94	2.0	ND	2.0	20.0	ND	ND	ND	ND	ND	NS
		23-Apr-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		28-Oct-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		22-Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		22-Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		07-Oct-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		25-Apr-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		20-Oct-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		18-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		11-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		23-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Duplicate	01-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		21-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		03-Oct-03	ND	0.19 J	ND	ND	ND	ND	ND	ND	ND	ND
		26-Apr-04	ND	0.29 J	ND	ND	ND	ND	ND	ND	ND	ND
		21-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	0.99 J	ND

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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	<b>MCL</b>		<b>5</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>NCL</b>
LF12-MW15A	OU3	06-Jul-93	ND	ND	ND	ND	ND	ND	ND	(12.11)	ND	NS
		10-Jan-94	ND	ND	ND	ND	ND	ND	ND	1.0	ND	NS
	Duplicate	21-Oct-98	ND	ND	ND	ND	ND	0.57 J	ND	1.8	ND	NS
		21-Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		07-Oct-99	ND	ND	ND	ND	ND	0.57	ND	2.5	ND	NS
		13-Oct-99	ND	ND	ND	ND	ND	ND	ND	2.5	ND	NS
		20-Apr-00	ND	ND	ND	ND	ND	ND	ND	2.7	ND	NS
		18-Oct-00	ND	0.21 J	ND	ND	ND	0.45 J	ND	2.2	ND	ND
		16-Apr-01	ND	ND	ND	ND	ND	0.41 J	ND	2.4	ND	ND
		16-Oct-01	ND	0.18 J	ND	ND	ND	0.65	ND	2.8	ND	ND
		17-Apr-02	ND	ND	ND	ND	ND	0.49 J	ND	2.2	ND	ND
		01-Oct-02	ND	ND	ND	ND	ND	0.48 J	ND	2.5	ND	ND
	Duplicate	16-Oct-02	ND	ND	ND	ND	ND	0.49 J	ND	2.3	ND	ND
		14-Apr-03	Well head damaged - unable to sample					--	--	--	--	--
		03-Oct-03	Well head damaged - unable to sample					--	--	--	--	--
		19-Apr-04	Well Abandoned					--	--	--	--	--
07-520-M	OU3	01-Jul-93	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		01-Jun-94	ND	ND	ND	ND	ND	0.3 J	ND	ND	ND	NS
	Duplicate	21-Oct-98	ND	ND	ND	ND	ND	0.21 J	ND	ND	ND	NS
		20-Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		20-Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		07-Oct-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		20-Apr-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		18-Oct-00	ND	0.21 J	ND	ND	ND	0.21 J	ND	ND	ND	ND
		23-Apr-01	ND	ND	ND	ND	ND	0.37 J	ND	ND	ND	ND
		10-Oct-01	ND	0.41 J	ND	ND	ND	0.43 J	ND	ND	ND	ND
		23-Apr-02	ND	ND	ND	ND	ND	0.46 J	ND	ND	ND	ND
		01-Oct-02	ND	ND	ND	ND	ND	0.38 J	ND	ND	ND	ND
		14-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		15-Oct-03	ND	ND	ND	ND	ND	0.25 J	ND	ND	ND	ND
		26-Apr-04	0.20 J	0.30 J	ND	ND	ND	0.29 J	ND	ND	ND	ND
		08-Oct-04	ND	ND	ND	ND	ND	0.25 J	ND	ND	ND	ND
05-DM-123S-M	OU3	13-Jul-93	ND	ND	ND	ND	ND	ND	ND	2.0	ND	NS
		11-Jan-94	ND	ND	ND	ND	ND	ND	ND	2.0	ND	NS
	Duplicate	14-Apr-94	ND	ND	ND	ND	ND	ND	ND	2.0	ND	NS
		31-Aug-94	ND	ND	ND	ND	ND	ND	ND	2.0	ND	NS
		21-Oct-98	ND	ND	ND	ND	ND	0.85 J	ND	2.2	ND	NS
		20-Apr-99	ND	ND	ND	ND	ND	0.42 J	ND	1.3	ND	NS
		07-Oct-99	ND	ND	ND	ND	ND	0.85	ND	2.2	ND	NS
		20-Apr-00	ND	ND	ND	ND	ND	1.2	ND	1.8	ND	NS
		23-Oct-00	ND	ND	ND	ND	ND	0.68	ND	2.5	ND	ND
		23-Oct-00	ND	ND	ND	ND	ND	0.68	ND	2.6	ND	ND
		16-Apr-01	ND	ND	ND	ND	ND	0.92	ND	2.5	ND	ND
		10-Oct-01	ND	ND	ND	ND	ND	0.60	ND	2.6	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	0.68	ND	2.3	ND	ND
		01-Oct-02	ND	ND	ND	ND	ND	0.70	ND	2.4	ND	ND
		14-Apr-03	ND	ND	ND	ND	ND	0.42 J	ND	2.1	ND	ND
		03-Oct-03	ND	0.17 J	ND	ND	ND	0.67	ND	2.2	ND	ND
		19-Apr-04	ND	ND	ND	ND	ND	0.48 J	ND	1.6 J	ND	ND
	Duplicate	21-Oct-04	ND	ND	ND	ND	ND	0.64	ND	2.3	ND	ND
		21-Oct-04	ND	ND	ND	ND	ND	0.70	ND	2.5	ND	ND
05-DM-123I-M	OU3	26-Jul-93	ND	ND	ND	ND	ND	ND	ND	2.0	ND	NS
		11-Jan-94	ND	ND	ND	ND	ND	ND	ND	2.0	ND	NS
	Duplicate	14-Apr-94	ND	ND	ND	ND	ND	ND	ND	2.0	ND	NS
		31-Aug-94	ND	ND	ND	ND	ND	ND	ND	2.2	ND	NS
		21-Oct-98	ND	ND	ND	ND	ND	0.48 J	ND	2.7	ND	NS
		20-Apr-99	ND	ND	ND	ND	ND	ND	ND	1.0	ND	NS
		07-Oct-99	ND	ND	ND	ND	ND	0.36 J	ND	2.6	ND	NS
		20-Apr-00	ND	ND	ND	ND	ND	0.39 J	ND	2.9	ND	NS
		23-Oct-00	ND	ND	ND	ND	ND	0.34 J	ND	2.5	ND	ND
		10-Apr-01	ND	ND	ND	ND	ND	0.25 J	ND	1.9 J	ND	ND
		10-Oct-01	ND	ND	ND	ND	ND	0.38 J	ND	2.3	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	0.40 J	ND	3.1	ND	ND
		01-Oct-02	ND	ND	ND	ND	ND	0.46 J	ND	3.3	ND	ND
		15-Apr-03	ND	ND	ND	ND	ND	0.42 J	ND	2.6	ND	ND
		06-Oct-03	ND	ND	ND	ND	ND	0.44 J	ND	2.6	ND	ND
		19-Apr-04	ND	ND	ND	ND	ND	0.32 J	ND	1.8 J	ND	ND
		12-Oct-04	ND	ND	ND	ND	ND	0.46 J	ND	2.7	ND	ND

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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	MCL		5	1,000	700	10,000	5	70	5	5	2	NCL
05-DM-123D-M	OU3	22-Jul-93	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		11-Jan-94	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		14-Apr-94	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		31-Aug-94	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		21-Oct-98	ND	ND	ND	ND	ND	ND	ND	1.6	ND	NS
		20-Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		07-Oct-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		20-Apr-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		23-Oct-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		17-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		01-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		14-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		03-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		19-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		21-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BMP-OU4-1B-60	OU4	21-Oct-98	ND	ND	ND	ND	ND	3.1	ND	4.5	0.5 J	NS
		16-Apr-99	ND	ND	ND	ND	ND	1.5	ND	1.8	ND	NS
		05-Oct-99	ND	ND	ND	ND	ND	3.2	ND	3.2	0.42 J	NS
		18-Apr-00	ND	ND	ND	ND	ND	2.8	ND	2.6	1.3	NS
		16-Oct-00	ND	0.22 J	ND	ND	ND	2.9	ND	2.5	0.34 J	ND
		09-Apr-01	ND	ND	ND	ND	ND	2.9	ND	2.3	0.49 J	ND
		15-Oct-01	ND	ND	ND	ND	ND	2.9	ND	2.9	0.41 J	ND
		16-Apr-02	ND	ND	ND	ND	ND	2.3	ND	2.6	ND	ND
		30-Sep-02	ND	ND	ND	ND	ND	2.2	ND	3.2	ND	ND
		17-Apr-03	ND	ND	ND	ND	ND	1.6	ND	2.4	ND	ND
		01-Oct-03	0.21 J	ND	ND	ND	ND	1.4	ND	2.6	ND	ND
		16-Apr-04	ND	ND	ND	ND	ND	1.2	ND	2.5	ND	ND
		08-Oct-04	ND	ND	ND	ND	ND	1.4	ND	2.6	0.35 J	ND
BMP-OU4-1C-84	OU4	20-Oct-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		16-Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		05-Oct-99	ND	ND	ND	ND	ND	0.27 J	ND	ND	ND	NS
		18-Apr-00	ND	ND	ND	ND	ND	0.39 J	ND	ND	ND	NS
		16-Oct-00	ND	0.22 J	ND	ND	ND	0.29 J	ND	ND	ND	ND
		09-Apr-01	ND	ND	ND	ND	ND	0.27 J	ND	ND	ND	ND
		15-Oct-01	ND	ND	ND	ND	ND	0.37 J	ND	ND	ND	ND
		16-Apr-02	ND	ND	ND	ND	ND	0.36 J	ND	ND	ND	ND
		30-Sep-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		17-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		01-Oct-03	0.20 J	ND	ND	ND	ND	0.31 J	ND	ND	ND	ND
		16-Apr-04	ND	ND	ND	ND	ND	0.37 J	ND	ND	ND	ND
OU4-MW-02A	OU4	08-Oct-04	ND	ND	ND	ND	ND	0.34 J	ND	ND	ND	ND
		22-Jul-93	ND	ND	ND	ND	ND	ND	ND	2.0	ND	NS
		26-Aug-93	ND	ND	ND	ND	ND	ND	ND	4.0	ND	NS
		15-Dec-93	ND	ND	ND	ND	ND	ND	ND	(5.0)	ND	NS
		23-Apr-98	ND	ND	ND	ND	ND	4.4	ND	0.56 J	ND	NS
		20-Oct-98	ND	ND	ND	ND	ND	7.1	ND	1.7	ND	NS
		19-Apr-99	ND	ND	ND	ND	ND	3.5	ND	0.36 J	ND	NS
		05-Oct-99	ND	ND	ND	ND	ND	9.7	ND	3.0	ND	NS
		17-Apr-00	ND	ND	ND	ND	ND	3.9	ND	0.40 J	ND	NS
		23-Oct-00	ND	ND	ND	ND	ND	7.01 J	ND	2.8	ND	ND
		09-Apr-01	ND	ND	ND	ND	ND	6.2	ND	2.3	ND	ND
		11-Oct-01	ND	ND	ND	ND	ND	6.0	ND	1.9 J	ND	ND
		16-Apr-02	ND	ND	ND	ND	ND	1.8	ND	0.31 J	ND	ND
		30-Sep-02	ND	ND	ND	ND	ND	2.7	ND	0.82 J	ND	ND
		17-Apr-03	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND
		01-Oct-03	ND	ND	ND	ND	ND	5.0	ND	0.35 J	ND	ND
		26-Apr-04	ND	ND	ND	ND	ND	2.9	ND	ND	ND	ND
		08-Oct-04	ND	ND	ND	ND	ND	6.4 J	ND	0.33 J	ND	ND

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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	MCL		5	1,000	700	10,000	5	70	5	5	2	NCL
OU4-MW-02B	OU4	15-Dec-93	ND	ND	ND	ND	ND	ND	ND	(23)	ND	NS
		26-Aug-93	ND	ND	ND	ND	ND	ND	ND	(22)	ND	NS
		23-Apr-98	ND	ND	ND	ND	ND	0.74 J	ND	(21)	ND	NS
		20-Oct-98	ND	ND	ND	ND	ND	0.69	ND	(16)	ND	NS
		19-Apr-99	ND	ND	ND	ND	ND	ND	ND	(9.4)	ND	NS
		07-Oct-99	ND	ND	ND	ND	ND	0.98	ND	(15)	ND	NS
		17-Apr-00	ND	ND	ND	ND	ND	0.70	ND	(16)	ND	NS
		23-Oct-00	ND	ND	ND	ND	ND	0.74	ND	(12)	ND	ND
		09-Apr-01	ND	ND	ND	ND	ND	0.84	ND	(12)	ND	ND
		11-Oct-01	ND	ND	ND	ND	ND	0.62	ND	(11)	ND	ND
		16-Apr-02	ND	ND	ND	ND	ND	0.25 J	ND	(11)	ND	ND
		30-Sep-02	ND	ND	ND	ND	ND	0.43 J	ND	(10)	ND	ND
		17-Apr-03	ND	ND	ND	ND	ND	0.36 J	ND	(9.6)	ND	ND
		01-Oct-03	ND	ND	ND	ND	ND	0.36 J	ND	(8.7)	ND	ND
		26-Apr-04	ND	ND	ND	ND	ND	ND	ND	(8.2)	ND	ND
		08-Oct-04	ND	ND	ND	ND	ND	0.30 J	ND	(8.8)	ND	ND
		08-Oct-04	ND	ND	ND	ND	ND	0.28 J	ND	(9.3)	ND	ND
OU4-MW-03B	OU4	24-Aug-93	ND	ND	ND	ND	ND	ND	ND	(17)	ND	NS
		15-Dec-93	ND	ND	ND	ND	ND	ND	ND	(16)	ND	NS
		21-Apr-98	ND	ND	ND	ND	ND	0.61 J	ND	(12)	ND	NS
		20-Oct-98	ND	ND	ND	ND	ND	0.61	ND	(10)	ND	NS
		21-Apr-99	ND	ND	ND	ND	ND	0.59	ND	(9.5)	ND	NS
		13-Oct-99	ND	ND	ND	ND	ND	0.95	ND	(7.9)	ND	NS
		17-Apr-00	ND	ND	ND	ND	ND	0.61	ND	(8.2)	ND	NS
		19-Apr-00	ND	ND	ND	ND	ND	0.70	ND	(8.6)	ND	NS
		18-Oct-00	ND	0.25 J	ND	ND	ND	1.1	ND	(7.3)	ND	ND
		16-Apr-01	ND	ND	ND	ND	ND	0.94	ND	(7.4)	ND	ND
		12-Oct-01	ND	ND	ND	ND	ND	0.90	ND	(6.9)	ND	ND
		17-Apr-02	ND	ND	ND	ND	ND	0.69	ND	(5.5)	ND	ND
		16-Oct-02	ND	ND	ND	ND	ND	0.40 J	ND	(5.2)	ND	ND
		15-Apr-03	ND	ND	ND	ND	ND	0.45 J	ND	(5.2)	ND	ND
		06-Oct-03	ND	ND	ND	ND	ND	0.40 J	ND	4.2	ND	ND
		20-Apr-04	ND	ND	ND	ND	ND	0.36 J	ND	4.4	ND	ND
		12-Oct-04	ND	ND	ND	ND	ND	0.35 J	ND	4.4	ND	ND
OU4-MW-03C	OU4	24-Aug-93	ND	ND	ND	ND	ND	ND	ND	(22)	ND	NS
		14-Dec-93	ND	ND	ND	ND	ND	ND	ND	(24)	ND	NS
		21-Apr-98	ND	ND	ND	ND	ND	0.96 J	ND	(21)	ND	NS
		20-Oct-98	ND	ND	ND	ND	ND	1.0	ND	(15)	ND	NS
		19-Apr-99	ND	ND	ND	ND	ND	0.94	ND	(5.4)	ND	NS
		04-Oct-99	ND	ND	ND	ND	ND	1.3	ND	(8.6)	ND	NS
		17-Apr-00	ND	ND	ND	ND	ND	1.2	ND	(7.9)	ND	NS
		19-Oct-00	ND	0.19 J	ND	ND	ND	1.2	ND	(8.5)	ND	ND
		09-Apr-01	ND	ND	ND	ND	ND	1.0	ND	(6.3)	ND	ND
		09-Oct-01	ND	ND	ND	ND	ND	1.1	ND	(7.1)	ND	ND
		16-Apr-02	ND	ND	ND	ND	ND	1.3	ND	(6.0)	ND	ND
		16-Apr-02	ND	ND	ND	ND	ND	1.3	ND	(5.6)	ND	ND
		30-Sep-02	ND	ND	ND	ND	ND	0.79	ND	4.9	ND	ND
		11-Apr-03	ND	ND	ND	ND	ND	0.92	ND	(5.5)	ND	ND
		11-Apr-03	ND	ND	ND	ND	ND	0.88	ND	4.8	ND	ND
		01-Oct-03	ND	ND	ND	ND	ND	0.81	ND	4.5	ND	ND
		01-Oct-03	ND	ND	ND	ND	ND	0.83	ND	4.4	ND	ND
		26-Apr-04	ND	ND	ND	ND	ND	0.80	ND	4.4	ND	ND
		26-Apr-04	ND	ND	ND	ND	ND	0.84	ND	4.6	ND	ND
		19-Oct-04	ND	ND	ND	ND	ND	0.77	0.20 J	4.2	ND	ND
OU4-MW-04A	OU4	22-Jul-93	ND	ND	ND	ND	ND	ND	ND	ND	0.5 J	NS
		23-Aug-93	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		13-Dec-93	ND	ND	ND	ND	ND	ND	ND	ND	(2.0)	NS
		23-Apr-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		20-Oct-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		19-Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		04-Oct-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		18-Apr-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		23-Oct-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		11-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OU4-MW-04B	OU4	09-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		23-Aug-93	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		13-Dec-93	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		16-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		01-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		01-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		26-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	MCL		5	1,000	700	10,000	5	70	5	5	2	NCL
OU4-MW-12B	OU4	26-Aug-93	ND	ND	ND	ND	ND	ND	ND	(12)	ND	NS
		15-Dec-93	ND	ND	ND	ND	ND	ND	ND	(14)	ND	NS
		23-Apr-98	ND	ND	ND	ND	ND	0.70 J	1.2	(11)	ND	NS
		20-Oct-98	ND	ND	ND	ND	ND	1.1	2.5	(9.0)	ND	NS
		19-Apr-99	ND	ND	ND	ND	ND	0.75	(5.0)	4.4	ND	NS
		06-Oct-99	ND	ND	ND	ND	ND	1.2	4.4	(9.4)	ND	NS
		17-Apr-00	ND	ND	ND	ND	ND	0.84	(5.4)	(7.8)	ND	NS
		23-Oct-00	0.19 J	0.63 J	ND	ND	ND	0.81	(5.3)	(6.9)	ND	ND
		09-Apr-01	ND	ND	ND	ND	ND	0.86	(5.7)	(6.9)	ND	ND
		11-Oct-01	ND	ND	ND	ND	ND	0.87	(8.4)	(6.1)	ND	ND
		16-Apr-02	ND	ND	ND	ND	ND	0.61	(6.8)	(6.1)	ND	ND
		30-Sep-02	ND	ND	ND	ND	ND	0.58	(11)	(5.2)	ND	ND
		17-Apr-03	ND	ND	ND	ND	ND	0.41 J	(8.4)	(5.5)	ND	ND
		15-Oct-03	ND	ND	ND	ND	ND	0.56	(8.7)	(5.5)	ND	ND
		26-Apr-04	ND	ND	ND	ND	ND	0.56	(14)	4.3	ND	ND
		08-Oct-04	ND	ND	ND	ND	ND	0.60	(11)	4.5	ND	ND
CW04-060	OU5	01-Sep-90	ND	ND	ND	ND	ND	0.3	ND	ND	ND	NS
		01-Nov-91	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		01-Nov-92	ND	ND	ND	0.2	0.4	1.0	ND	ND	ND	NS
		01-Oct-93	ND	ND	ND	ND	ND	1.5	ND	ND	ND	NS
		01-Apr-94	ND	10	ND	ND	ND	0.8	ND	0.3	ND	NS
		01-Dec-94	ND	ND	ND	ND	2.0	2.0	ND	ND	ND	NS
		01-Sep-95	ND	ND	ND	ND	ND	1.0	ND	ND	ND	NS
		01-Dec-96	ND	ND	ND	ND	ND	1.6	ND	ND	ND	NS
		01-Sep-97	ND	ND	ND	ND	ND	1.3	ND	ND	ND	NS
		01-Jul-98	ND	ND	ND	ND	ND	0.66	ND	0.62	ND	NS
		14-Apr-00	ND	1.2	ND	ND	ND	1.4	ND	0.40 J	ND	NS
		02-Nov-00	ND	ND	ND	ND	0.29 J	0.89	ND	0.48 J	ND	ND
		10-Apr-01	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND
		16-Oct-01	ND	ND	ND	ND	0.30 J	0.99	ND	0.47 J	ND	ND
		25-Apr-02	ND	ND	ND	ND	0.25 J	1.2	ND	0.18 J	ND	ND
		16-Oct-02	ND	ND	ND	ND	ND	0.65	ND	ND	ND	ND
		14-Apr-03	ND	ND	ND	ND	0.29 J	0.75	ND	ND	ND	ND
		06-Oct-03	ND	ND	ND	ND	0.27 J	0.73	ND	0.27 J	ND	ND
		19-Apr-04	ND	ND	ND	ND	ND	0.60	ND	ND	ND	ND
		12-Oct-04	ND	ND	ND	ND	ND	0.57	ND	ND	ND	ND
CW05-055	OU5	01-Sep-90	ND	0.3	ND	ND	ND	41	ND	(550)	1.0	NS
		01-Nov-91	0.7	ND	ND	0.2	ND	60	ND	(529)	ND	NS
		01-Nov-92	ND	ND	ND	ND	ND	15	ND	(19)	(3.0)	NS
		01-Oct-93	ND	ND	ND	ND	ND	1.7	ND	(8.4)	ND	NS
		01-Dec-94	ND	ND	ND	ND	ND	8.0	ND	3.0	(3.0)	NS
		01-Sep-95	ND	ND	ND	ND	ND	19.4	ND	1.81	(10.6)	NS
		01-Dec-96	ND	ND	ND	ND	ND	8.9	ND	(5.0)	ND	NS
		01-Sep-97	ND	ND	ND	1.6	ND	7.4	ND	2.1	ND	NS
		23-Oct-98	ND	ND	ND	ND	ND	19.7	ND	(6.1)	ND	NS
		19-Apr-99	ND	ND	ND	ND	ND	7.6	ND	(5.4)	ND	NS
		05-Oct-99	ND	ND	ND	ND	ND	4.0	ND	3.3	ND	NS
		17-Apr-00	ND	ND	ND	ND	ND	3.0	ND	2.0	0.54	NS
		31-Oct-00	0.13 J	0.29 J	ND	ND	ND	5.0	ND	1.8 J	0.31 J	ND
		09-Apr-01	ND	ND	ND	ND	ND	21.54	ND	(13)	1.9	ND
		09-Apr-01	ND	ND	ND	ND	ND	21.54	ND	(13)	(2.0)	ND
		11-Oct-01	ND	0.22 J	ND	ND	ND	4.4	ND	(7.6)	ND	ND
	Duplicate	24-Apr-02	ND	ND	ND	ND	ND	12.31 J	ND	(36)	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	12.34 J	ND	(35)	ND	ND
	Duplicate	14-Oct-02	ND	ND	ND	ND	ND	9.8	ND	(20)	ND	ND
		14-Apr-03	ND	ND	ND	ND	ND	7.1	ND	(14)	ND	ND
	Duplicate	14-Apr-03	ND	ND	ND	ND	ND	7.5	ND	(15)	ND	ND
		07-Oct-03	ND	ND	ND	ND	ND	1.4	ND	2.4	ND	ND
	Duplicate	07-Oct-03	ND	ND	ND	ND	ND	1.5	ND	2.3	ND	ND
		26-Apr-04	ND	0.28 J	ND	ND	ND	1.3	ND	0.33 J	ND	ND
	Duplicate	26-Apr-04	0.21 J	0.31 J	ND	ND	ND	1.2	ND	0.27 J	ND	ND
		14-Oct-04	ND	ND	ND	ND	ND	3.5	ND	1.0 J	ND	ND
	Duplicate	14-Oct-04	ND	ND	ND	ND	ND	3.4	ND	0.98 J	ND	ND



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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	MCL		5	1,000	700	10,000	5	70	5	5	2	NCL
CW05-085	OU5	01-Sep-90	ND	ND	ND	ND	ND	40	ND	(770)	0.5	NS
		01-Nov-91	ND	ND	ND	ND	ND	30.2	ND	(346)	ND	NS
		01-Nov-92	ND	ND	ND	ND	ND	25	ND	(380)	ND	NS
		01-Oct-93	ND	ND	ND	ND	ND	25.6	ND	(250)	ND	NS
		01-Dec-94	ND	ND	ND	ND	ND	20	ND	(250)	ND	NS
		01-Sep-95	1.91 J	4.81 J	1.08 J	6.13	ND	22.54	ND	(132)	ND	NS
		01-Dec-96	ND	ND	ND	ND	ND	29.8	ND	(150)	ND	NS
		01-Sep-97	ND	ND	ND	ND	ND	20	ND	(130)	ND	NS
		21-Oct-98	ND	0.71 J	ND	ND	ND	10	ND	(83)	ND	NS
		21-Apr-99	ND	ND	ND	ND	ND	4.6	ND	(57)	ND	NS
		04-Oct-99	ND	ND	ND	ND	ND	23.6	ND	(150)	ND	NS
		17-Apr-00	ND	ND	ND	ND	ND	12.2	ND	(110 D)	0.74	NS
		02-Nov-00	ND	ND	ND	ND	ND	6.6	ND	(73)	ND	ND
		10-Apr-01	ND	ND	ND	ND	ND	7.67	ND	(67 D)	0.39 J	ND
		16-Oct-01	ND	ND	ND	ND	ND	7.33 JD	ND	(66 D)	0.47 JD	ND
		25-Apr-02	ND	ND	ND	ND	ND	5.7 D	ND	(62 D)	ND	ND
		16-Oct-02	ND	ND	ND	ND	ND	5.1 D	ND	(50 D)	ND	ND
		14-Apr-03	ND	ND	ND	ND	ND	3.3 D	ND	(44 D)	0.60 JD	ND
		06-Oct-03	ND	ND	ND	ND	ND	3.2 D	ND	(39 D)	0.38 JD	ND
		19-Apr-04	ND	ND	ND	ND	ND	3.2 D	ND	(38 D)	ND	ND
		12-Oct-04	ND	ND	ND	ND	ND	4.3 D	ND	(43 D)	0.46 JD	ND
CW07-055	OU5	01-Sep-90	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		01-Nov-91	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		01-Mar-92	ND	ND	ND	ND	ND	ND	ND	1.0	ND	NS
		01-Apr-94	ND	5.0	ND	0.5	ND	ND	ND	ND	ND	NS
		01-Oct-93	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		01-Dec-94	ND	ND	ND	ND	1.0	ND	ND	ND	ND	NS
		01-Sep-95	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		01-Dec-96	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		01-Feb-97	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		01-Apr-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		01-Sep-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		09-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		11-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		14-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		14-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		26-Apr-04	ND	0.27 J	ND	ND	ND	ND	ND	ND	ND	ND
		21-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CW10-055	OU5	01-Oct-93	ND	ND	ND	ND	ND	ND	ND	4.7	ND	NS
		01-Feb-94	ND	ND	ND	ND	ND	0.9	ND	(6.5)	ND	NS
		09-Apr-01	ND	ND	ND	ND	ND	ND	ND	1.0 J	ND	ND
		11-Oct-01	ND	ND	ND	ND	ND	ND	ND	3.7	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	ND	ND	4.3	ND	ND
		14-Oct-02	ND	ND	ND	ND	ND	ND	ND	4.9	ND	ND
		14-Apr-03	ND	ND	ND	ND	ND	ND	ND	4.7	ND	ND
		13-Oct-03	ND	ND	ND	ND	ND	0.33 J	ND	(5.2)	ND	ND
		21-Apr-04	ND	ND	ND	ND	ND	1.6	ND	3.7	ND	ND
		14-Oct-04	ND	ND	ND	ND	ND	3.2	ND	4.1	ND	ND
HD-11	OU5	01-Sep-90	ND	ND	ND	ND	ND	21	ND	(600)	ND	NS
		01-Nov-91	ND	ND	ND	ND	ND	35.3	ND	(394)	ND	NS
		01-Nov-92	ND	ND	ND	ND	ND	24	ND	(310)	ND	NS
		01-Oct-93	ND	0.8	ND	0.4	ND	7.0	ND	(370)	ND	NS
		01-Dec-94	ND	ND	ND	ND	ND	35	ND	(180)	ND	NS
		01-Sep-95	ND	ND	ND	ND	ND	23	ND	(108)	ND	NS
		01-Dec-96	ND	ND	ND	ND	ND	26.3	ND	(39)	ND	NS
		01-Sep-97	ND	ND	ND	ND	ND	22.6	ND	(22.6)	ND	NS
		28-Oct-98	ND	ND	ND	ND	ND	30.5 J	ND	(51)	ND	NS
		22-Apr-99	ND	ND	ND	ND	ND	16.48	ND	(31)	ND	NS
		05-Oct-99	ND	ND	ND	ND	0.47 J	27	ND	(8.4)	ND	NS
		18-Apr-00	ND	ND	ND	ND	ND	16.64	ND	(18)	0.77	NS
		02-Nov-00	ND	ND	ND	ND	0.20 J	29.63	ND	(22)	0.59 J	ND
		10-Apr-01	ND	ND	ND	ND	ND	16.54	ND	(7.0)	ND	ND
		16-Oct-01	ND	ND	ND	ND	ND	24.60	ND	(26)	0.31 J	ND
		25-Apr-02	ND	ND	ND	ND	ND	21.47	ND	(31)	0.34 J	ND
		16-Oct-02	ND	ND	ND	ND	ND	19.0	ND	(31 D)	ND	ND
		14-Apr-03	ND	ND	ND	ND	ND	24.2	ND	(25)	0.89 J	ND
		08-Oct-03	ND	ND	ND	ND	ND	32.8	ND	(17)	ND	ND
		21-Apr-04	ND	ND	ND	ND	ND	27.5	ND	(7.4)	0.42 J	ND
		14-Oct-04	ND	ND	ND	ND	ND	21.1 D	ND	(8.5 D)	0.43 JD	ND

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**Sampling Results: VOCs**  
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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	MCL		5	1,000	700	10,000	5	70	5	5	2	NCL
HD-12M	OU5	01-Sep-90	ND	ND	ND	ND	ND	ND	ND	(9.1)	ND	NS
		01-Nov-91	ND	ND	ND	ND	ND	ND	ND	4.8	ND	NS
		01-Nov-92	ND	0.4	ND	ND	ND	ND	ND	(7.0)	ND	NS
		01-Oct-93	ND	ND	ND	ND	ND	ND	ND	4.0	ND	NS
		01-Dec-94	ND	ND	ND	ND	ND	ND	ND	3.0	ND	NS
		01-Sep-95	ND	ND	ND	ND	ND	ND	ND	2.07	ND	NS
		01-Dec-96	ND	ND	ND	ND	ND	ND	ND	1.5	ND	NS
		01-Sep-97	ND	ND	ND	ND	ND	ND	ND	1.5 J	ND	NS
		28-Oct-98	ND	ND	ND	ND	ND	ND	ND	1.3	ND	NS
		22-Apr-99	ND	ND	ND	ND	ND	ND	ND	0.88	ND	NS
		05-Oct-99	ND	ND	ND	ND	ND	ND	ND	1.1	ND	NS
		18-Apr-00	ND	ND	ND	ND	ND	ND	ND	1.2	ND	NS
		01-Nov-00	ND	ND	ND	ND	ND	ND	ND	1.0 J	ND	ND
		10-Apr-01	ND	ND	ND	ND	ND	ND	ND	0.96 J	ND	ND
		18-Oct-01	ND	ND	ND	ND	ND	ND	ND	1.0 J	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	ND	ND	0.95 J	ND	ND
		15-Oct-02	ND	ND	ND	ND	ND	ND	ND	0.52 J	ND	ND
		14-Apr-03	ND	ND	ND	ND	ND	ND	ND	0.91 J	ND	ND
		08-Oct-03	ND	ND	ND	ND	ND	ND	ND	0.65 J	ND	ND
		21-Apr-04	ND	ND	ND	ND	ND	ND	ND	0.65 J	ND	ND
		14-Oct-04	ND	ND	ND	ND	ND	ND	ND	0.50 J	ND	ND
HD-12S	OU5	01-Oct-93	ND	ND	ND	ND	ND	ND	(71)	1.0	ND	NS
		01-Sep-95	ND	ND	ND	ND	ND	ND	(69.5)	1.16	ND	NS
		01-Dec-96	ND	ND	ND	ND	ND	ND	(44)	1.1	ND	NS
		01-Sep-97	ND	ND	ND	ND	ND	ND	(34)	1.1 J	ND	NS
		28-Oct-98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
		22-Apr-99	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
		05-Oct-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		18-Apr-00	ND	ND	ND	ND	ND	ND	(22)	0.99	ND	NS
		01-Nov-00	ND	ND	ND	ND	ND	ND	(15)	1.6 J	ND	ND
		10-Apr-01	ND	ND	ND	ND	ND	ND	2.1	0.74 J	ND	ND
		18-Oct-01	ND	ND	ND	ND	ND	ND	(6.8)	1.8 J	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	ND	(6.9)	1.3 J	ND	ND
		16-Oct-02	ND	ND	ND	ND	ND	ND	(5.9)	0.74 J	ND	ND
		14-Apr-03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
		08-Oct-03	ND	ND	ND	ND	ND	ND	(5.6)	0.22 J	ND	ND
		21-Apr-04	ND	ND	ND	ND	ND	ND	4.8	ND	ND	ND
		14-Oct-04	ND	ND	ND	ND	ND	ND	2.7	ND	ND	ND
HD-13S	OU5	01-Sep-90	0.3	0.2	ND	ND	ND	63	ND	(35)	ND	NS
		01-Nov-91	ND	ND	ND	ND	ND	(105)	ND	(32.9)	ND	NS
		01-Nov-92	ND	ND	ND	ND	ND	4.0	ND	(9.0)	ND	NS
		01-Oct-93	ND	0.6	0.5	ND	ND	12	ND	(6.0)	(2.0)	NS
		01-Dec-94	ND	ND	ND	ND	ND	1.0	ND	2.0	ND	NS
		01-Sep-95	ND	ND	ND	ND	ND	5.94	ND	4.66	ND	NS
		01-Dec-96	ND	ND	0.6	ND	ND	ND	ND	1.1	ND	NS
		01-Sep-97	ND	ND	ND	ND	ND	1.1	ND	ND	ND	NS
		26-Oct-98	ND	ND	ND	ND	ND	17.30 J	ND	0.28 J	1.5	NS
		22-Apr-99	ND	ND	ND	ND	ND	7.4	ND	ND	ND	NS
		05-Oct-99	ND	0.28 J	ND	ND	0.32 J	1.3	ND	0.29 J	ND	NS
		17-Apr-00	ND	ND	ND	ND	ND	4.8	ND	ND	1.5	NS
		01-Nov-00	ND	0.15 J	ND	ND	ND	4.5	ND	ND	(3.5)	NS
		11-Apr-01	ND	ND	ND	ND	ND	8.4	ND	ND	1.9	ND
		18-Oct-01	0.22 J	ND	ND	ND	0.22 J	14.28 J	ND	0.29 J	(3.6)	ND
		24-Apr-02	0.47 J	ND	ND	ND	ND	17.54	ND	0.49 J	1.4	ND
		15-Oct-02	ND	ND	ND	ND	ND	12.35 J	ND	ND	1.2	ND
		14-Apr-03	ND	ND	ND	ND	ND	13.47 J	ND	ND	1.7	ND
		08-Oct-03	ND	ND	ND	ND	ND	15.41 J	ND	0.85 J	(5.4)	ND
		21-Apr-04	0.45 J	ND	ND	ND	ND	14.25 J	ND	0.33 J	1.0	ND
		14-Oct-04	0.49 J	ND	ND	ND	ND	6.8	ND	ND	1.0	ND
MAD-MON127 (HD13D)	OU5	17-Apr-00	ND	ND	ND	ND	2.8	30.92	ND	ND	ND	NS
		01-Nov-00	ND	ND	ND	ND	3.4	26.90	ND	ND	0.47 J	ND
		11-Apr-01	ND	ND	ND	ND	3.0	26.88	ND	ND	ND	ND
		18-Oct-01	ND	ND	ND	ND	2.9	28.93	ND	ND	0.37 J	ND
	Duplicate	18-Oct-01	ND	ND	ND	ND	2.9	29.96	ND	ND	0.35 J	ND
		24-Apr-02	ND	ND	ND	ND	ND	24.79	ND	ND	0.54 J	ND
	Duplicate	15-Oct-02	ND	ND	ND	ND	1.5	20.73	ND	ND	0.36 J	ND
		15-Oct-02	ND	ND	ND	ND	1.6	21.76	ND	ND	ND	ND
		14-Apr-03	ND	ND	ND	ND	1.4	19.74	ND	ND	0.37 J	ND
		08-Oct-03	ND	ND	ND	ND	1.4	21.76	ND	ND	ND	ND
		21-Apr-04	ND	ND	ND	ND	0.92 J	16.61	ND	ND	0.44 J	ND
		14-Oct-04	ND	ND	ND	ND	1.2	16.68	ND	ND	0.37 J	ND

**Table 6-2**  
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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	MCL		5	1,000	700	10,000	5	70	5	5	2	NCL
HSA-4A (MW131M)	OU5	01-Nov-92	ND	ND	ND	ND	ND	3.0	ND	(260)	ND	NS
		01-Oct-93	ND	ND	ND	ND	ND	23	ND	(250)	ND	NS
		01-Dec-94	ND	ND	ND	ND	ND	(74)	ND	(35)	1.0	NS
		01-Sep-95	ND	ND	ND	ND	ND	49.2	ND	(39.1)	ND	NS
		01-Dec-96	ND	ND	ND	ND	ND	36	ND	(27)	(5.5)	NS
		01-Sep-97	ND	ND	ND	ND	ND	19	ND	(41)	(3.7)	NS
		26-Oct-98	ND	ND	ND	ND	ND	50.4 J	ND	1.20	(4.2)	NS
		21-Apr-99	ND	ND	ND	ND	ND	28.32	ND	0.84	(22)	NS
		04-Oct-99	ND	ND	ND	ND	ND	9.5	ND	0.80	(21)	NS
		17-Apr-00	ND	ND	ND	ND	ND	11	ND	(22)	(3.4)	NS
	Duplicate	02-Nov-00	ND	ND	ND	ND	ND	21.24 J	ND	0.24 J	(18)	ND
		02-Nov-00	ND	ND	ND	ND	ND	22.22 J	ND	0.21 J	(18)	ND
		10-Apr-01	ND	ND	ND	ND	ND	6.7	ND	ND	(12)	ND
		16-Oct-01	ND	ND	ND	ND	ND	6.1	ND	0.28 J	(9.0)	ND
		25-Apr-02	ND	ND	ND	ND	ND	2.3	ND	0.20 J	(2.9)	ND
		16-Oct-02	ND	ND	ND	ND	ND	3.0	ND	ND	(11)	ND
		14-Apr-03	ND	ND	ND	ND	ND	0.56	ND	ND	(6.4)	ND
		08-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		21-Apr-04	ND	ND	ND	ND	ND	1.4	ND	ND	(5.8)	ND
		14-Oct-04	ND	ND	ND	ND	ND	2.2	ND	ND	(11)	ND
HSA-4B (MW131S)	OU5	01-Nov-92	ND	ND	ND	ND	ND	ND	(10)	(26)	ND	NS
		01-Oct-93	ND	ND	ND	ND	ND	ND	(6.7)	(14.5)	ND	NS
		01-Dec-94	ND	ND	ND	ND	ND	ND	(8.0)	4.0	ND	NS
		01-Sep-95	ND	ND	ND	ND	ND	ND	4.16	4.71	ND	NS
		01-Dec-96	ND	ND	ND	ND	ND	1.2	1.8	1.8	ND	NS
		01-Sep-97	ND	ND	ND	ND	ND	0.8	1.5	(31)	ND	NS
		26-Oct-98	ND	ND	ND	ND	ND	2.0	1.5	3.1	ND	NS
		21-Apr-99	ND	ND	ND	ND	ND	1.7	0.44 J	2.1	ND	NS
		05-Oct-99	ND	ND	ND	ND	ND	2.4	1.8	2.1	ND	NS
		17-Apr-00	ND	ND	ND	ND	ND	0.36 J	3.7	1.3	ND	NS
	Duplicate	01-Nov-00	ND	ND	ND	ND	ND	2.6	1.4	1.3 J	ND	ND
		10-Apr-01	ND	ND	ND	ND	ND	2.3	1.8	1.0 J	ND	ND
		18-Oct-01	ND	ND	ND	ND	ND	2.4	1.9	1.6 J	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	0.35 J	2.1	0.38 J	ND	ND
		15-Oct-02	ND	ND	ND	ND	ND	2.5	1.0	0.66 J	ND	ND
		14-Apr-03	ND	ND	ND	ND	ND	3.2	0.64 J	0.86 J	ND	ND
		08-Oct-03	ND	ND	ND	ND	ND	0.92	0.57 J	0.38 J	ND	ND
		21-Apr-04	ND	ND	ND	ND	ND	1.1	0.53 J	0.28 J	ND	ND
		14-Oct-04	ND	ND	ND	ND	ND	0.89	0.49 J	0.28 J	ND	ND
HSA-5 (MW132S)	OU5	01-Nov-92	ND	ND	ND	ND	ND	ND	(14)	(31)	ND	NS
		01-Oct-93	ND	ND	ND	ND	ND	ND	(12.1)	(20.6)	ND	NS
		01-Dec-94	ND	ND	ND	ND	ND	ND	(9.0)	(35)	ND	NS
		01-Sep-95	ND	ND	ND	ND	ND	ND	(8.68)	(34.5)	ND	NS
		01-Dec-96	ND	ND	ND	ND	ND	ND	(5.7)	(28)	ND	NS
		01-Sep-97	ND	ND	ND	ND	ND	ND	(6.5)	(33)	ND	NS
	Duplicate	26-Oct-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		26-Oct-98	ND	ND	ND	ND	ND	0.55	(7.3)	(33)	ND	NS
		22-Apr-99	ND	ND	ND	ND	ND	0.55	(7.7)	(31)	ND	NS
		05-Oct-99	ND	ND	ND	ND	ND	1.2	(7.1)	(40)	ND	NS
	Duplicate	05-Oct-99	ND	ND	ND	ND	0.26 J	0.99	(6.4)	(35)	ND	NS
		18-Apr-00	ND	ND	ND	ND	ND	1.3	(6.0)	(36 D)	ND	NS
	Duplicate	18-Apr-00	ND	ND	ND	ND	ND	1.1 D	4.9 D	(37 D)	ND	NS
		02-Nov-00	ND	ND	ND	ND	ND	1.9	4.1	(30)	ND	ND
	Duplicate	10-Apr-01	ND	ND	ND	ND	ND	4.0	4.0	(31)	ND	ND
		10-Apr-01	ND	ND	ND	ND	ND	3.8	4.1	(31)	ND	ND
		16-Oct-01	ND	ND	ND	ND	ND	1.55 J	4.2	(36)	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	7.1	3.3	(22)	ND	ND
	Duplicate	24-Apr-02	ND	ND	ND	ND	ND	8.0	3.4	(24)	ND	ND
		16-Oct-02	ND	ND	ND	ND	ND	1.8	3.5	(25)	ND	ND
		14-Apr-03	ND	ND	ND	ND	ND	0.54	(5.0)	(22)	ND	ND
		08-Oct-03	ND	ND	ND	ND	ND	0.46 J	4.1	(23)	ND	ND
		21-Apr-04	ND	ND	ND	ND	ND	4.5	2.2	(23)	ND	ND
		14-Oct-04	ND	ND	ND	ND	ND	5.5	2.0	(25)	ND	ND

**Table 6-2**  
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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	MCL		5	1,000	700	10,000	5	70	5	5	2	NCL
CW03-77	OU8	19-Aug-93	ND	ND	ND	ND	ND	ND	ND	2.0	ND	NS
		29-Oct-93	ND	ND	ND	ND	ND	1.0	ND	(8.0)	ND	NS
		06-Apr-94	ND	ND	ND	ND	ND	1.0	ND	(9.0)	ND	NS
		25-Aug-94	ND	ND	ND	ND	ND	ND	ND	(7.4)	ND	NS
		21-Oct-98	ND	0.21 J	ND	ND	ND	0.28 J	1.1	3.7	ND	NS
		21-Apr-99	ND	ND	ND	ND	ND	ND	0.95	1.2	ND	NS
		13-Oct-99	ND	ND	ND	ND	ND	ND	0.95	1.7	ND	NS
		25-Apr-00	ND	ND	ND	ND	ND	ND	1.1	2.4	ND	NS
		18-Oct-00	ND	0.21 J	ND	ND	ND	0.32 J	1.1	2.1	ND	ND
		16-Apr-01	ND	ND	ND	ND	ND	ND	1.1	2.4	ND	ND
		12-Oct-01	ND	ND	ND	ND	ND	ND	1.1	1.5 J	ND	ND
		17-Apr-02	ND	ND	ND	ND	ND	ND	0.85 J	1.5 J	ND	ND
		16-Oct-02	ND	ND	ND	ND	ND	ND	0.76 J	0.83 J	ND	ND
		15-Apr-03	ND	ND	ND	ND	ND	ND	0.89 J	1.4 J	ND	ND
		06-Oct-03	ND	ND	ND	ND	ND	ND	0.58 J	0.70 J	ND	ND
		19-Apr-04	ND	ND	ND	ND	ND	ND	0.59 J	0.56 J	ND	ND
		12-Oct-04	ND	ND	ND	ND	ND	ND	0.71 J	0.98 J	ND	ND
CHP4-MW01	OU10 (CHP4)	05-Dec-95	ND	ND	ND	ND	ND	ND	(5.0)	(8.0)	ND	NS
		22-Apr-98	ND	ND	ND	ND	ND	ND	4.7	4.5	ND	NS
		16-Oct-98	ND	ND	ND	ND	ND	ND	2.5	2.1	ND	NS
		15-Apr-99	ND	ND	ND	ND	ND	ND	1.9	1.4	ND	NS
		06-Oct-99	ND	ND	ND	ND	ND	ND	3.6	2.1	ND	NS
		18-Apr-00	ND	ND	ND	ND	ND	ND	2.1	0.65	ND	NS
		17-Oct-00	ND	0.29 J	ND	ND	ND	ND	2.3	1.1 J	ND	ND
		10-Apr-01	ND	ND	ND	ND	ND	ND	(11)	1.8 J	ND	ND
		11-Oct-01	ND	ND	ND	ND	ND	ND	1.7	0.63 J	ND	ND
		19-Apr-02	ND	0.23 J	ND	ND	ND	ND	1.1	0.40 J	ND	ND
		15-Oct-02	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND
		21-Apr-03	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND
		06-Oct-03	ND	ND	ND	ND	ND	ND	1.0	0.29 J	ND	ND
		13-Apr-04	ND	ND	ND	ND	ND	ND	1.1	0.27 J	ND	ND
		19-Oct-04	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND
23-578-M	OU10 (CHP4)	01-Nov-93	ND	ND	ND	ND	ND	ND	2.0	(52)	ND	NS
		14-Apr-94	ND	ND	ND	ND	ND	ND	1.0	(28)	ND	NS
		01-Sep-94	ND	ND	ND	ND	ND	ND	2.0	(43)	ND	NS
		29-Oct-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		20-Apr-99	ND	0.32 J	ND	ND	ND	ND	1.8	(14)	ND	NS
	Duplicate	20-Apr-99	ND	ND	ND	ND	ND	ND	1.3	(10)	ND	NS
		06-Oct-99	ND	ND	ND	ND	ND	0.3 J	(7.5)	(39)	ND	NS
		18-Apr-00	ND	0.28 J	ND	ND	ND	ND	2.0	(11)	ND	NS
		17-Oct-00	ND	0.31 J	ND	ND	ND	ND	2.3	(14)	ND	ND
		10-Apr-01	ND	ND	ND	ND	ND	ND	3.8	(15)	ND	ND
		11-Oct-01	ND	ND	ND	ND	ND	ND	1.1	(12)	ND	ND
	Duplicate	22-Apr-02	ND	ND	ND	ND	ND	ND	2.0	(11)	ND	ND
		04-Oct-02	ND	ND	ND	ND	ND	ND	1.2	(5.0)	ND	ND
		07-Apr-03	ND	ND	ND	ND	ND	ND	3.1	(5.6)	ND	ND
		06-Oct-03	ND	ND	ND	ND	ND	ND	2.5	3.6	ND	ND
GR-330	OU10 (CHP4)	06-Oct-03	ND	ND	ND	ND	ND	ND	ND	3.4	ND	ND
		13-Apr-04	ND	ND	ND	ND	ND	ND	4.0	4.1	ND	ND
		19-Oct-04	ND	ND	ND	ND	ND	ND	(5.1)	3.5	ND	ND
	Duplicate	01-Sep-93	ND	ND	ND	ND	ND	ND	(20)	ND	ND	NS
		03-Nov-93	ND	ND	ND	ND	ND	ND	(13)	ND	ND	NS
		07-Apr-94	ND	ND	ND	ND	ND	ND	(22)	ND	ND	NS
		30-Aug-94	ND	ND	ND	ND	ND	ND	(37)	ND	ND	NS
		07-Dec-95	ND	ND	ND	ND	ND	ND	(16)	ND	ND	NS
		24-Apr-98	ND	ND	ND	ND	ND	ND	(43)	ND	ND	NS
		16-Oct-98	ND	ND	ND	ND	ND	ND	(30)	ND	ND	NS
		15-Apr-99	ND	ND	ND	ND	ND	ND	(35)	ND	ND	NS
		15-Apr-99	ND	ND	ND	ND	ND	ND	(31)	ND	ND	NS
		06-Oct-99	ND	ND	ND	ND	ND	ND	(12)	ND	ND	NS
		24-Apr-00	ND	ND	ND	ND	ND	ND	(11)	ND	ND	NS
		20-Oct-00	ND	ND	ND	ND	ND	ND	(12)	ND	ND	NS
		11-Apr-01	ND	ND	ND	ND	ND	ND	(5.5)	ND	ND	ND
		11-Oct-01	ND	ND	ND	ND	ND	ND	(12)	ND	ND	ND
		23-Apr-02	ND	ND	ND	ND	ND	ND	(41 D)	ND	ND	ND
		01-Oct-02	ND	ND	ND	ND	ND	ND	(72 D)	ND	ND	ND
		21-Apr-03	ND	ND	ND	ND	ND	ND	(69 D)	ND	ND	ND
		06-Oct-03	ND	ND	ND	ND	ND	ND	(56 D)	ND	ND	ND
		26-Apr-04	ND	0.42 JD	ND	ND	ND	ND	(70 D)	ND	ND	ND
		19-Oct-04	ND	ND	ND	ND	ND	ND	(63 D)	ND	ND	ND

**Table 6-2**  
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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	MCL		5	1,000	700	10,000	5	70	5	5	2	NCL
GR-333	OU10	03-Apr-93	ND	ND	ND	ND	ND	ND	ND	(5.0)	ND	NS
		30-Aug-93	ND	ND	ND	ND	ND	ND	ND	(6.0)	ND	NS
		09-Dec-93	ND	ND	ND	ND	ND	ND	ND	(6.0)	ND	NS
		13-Apr-94	ND	ND	ND	ND	ND	ND	ND	(6.0)	ND	NS
		22-Apr-98	ND	ND	ND	ND	ND	ND	0.58 J	(6.1)	ND	NS
		27-Oct-98	ND	ND	ND	ND	ND	ND	0.68	4.9	ND	NS
		27-Apr-99	ND	ND	ND	ND	ND	ND	0.79	4.0	ND	NS
		06-Oct-99	ND	ND	ND	ND	ND	ND	0.56	3.4	ND	NS
		06-Oct-99	ND	ND	ND	ND	ND	ND	0.60	3.5	ND	NS
		25-Apr-00	ND	ND	ND	ND	ND	ND	0.75	3.5	ND	NS
		25-Apr-00	ND	ND	ND	ND	ND	ND	0.67	3.7	ND	NS
		20-Oct-00	ND	ND	ND	ND	ND	ND	0.75 J	3.4	ND	ND
		20-Oct-00	ND	ND	ND	ND	ND	ND	0.80 J	3.4	ND	ND
		18-Apr-01	ND	ND	ND	ND	ND	ND	0.74 J	3.3	ND	ND
		18-Apr-01	ND	ND	ND	ND	ND	ND	0.71 J	3.2	ND	ND
		11-Oct-01	ND	ND	ND	ND	ND	ND	0.80 J	2.8	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	ND	0.85 J	2.5	ND	ND
		07-Oct-02	ND	ND	ND	ND	ND	ND	0.84 J	2.0	ND	ND
		23-Apr-03	ND	ND	ND	ND	ND	ND	0.82 J	1.7 J	ND	ND
		13-Oct-03	ND	ND	ND	ND	ND	ND	0.71 J	1.2 J	ND	ND
		28-Apr-04	ND	ND	ND	ND	ND	ND	0.62 J	0.91 J	ND	ND
		20-Oct-04	ND	ND	ND	ND	ND	ND	0.76 J	1.1 J	ND	ND
GR-334	OU10	03-Apr-93	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		13-Apr-94	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		30-Aug-94	ND	ND	ND	ND	ND	ND	ND	(7.0)	ND	NS
		22-Apr-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		28-Oct-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		22-Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		06-Oct-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		25-Apr-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		20-Oct-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		18-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		11-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		13-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		28-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		20-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NEA-MW37-1D	OU10	27-Aug-93	(7.0)	11.0	2.0	10.0	ND	ND	ND	ND	ND	NS
		13-Dec-93	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		23-Apr-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		16-Oct-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		14-Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		08-Oct-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		19-Apr-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		19-Oct-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45 J
		18-Apr-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57 J
		24-Apr-02	No access to well - restricted area				--	--	--	--	--	--
		02-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.48 J
		16-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.64 J
		02-Oct-03	ND	0.21 J	ND	ND	ND	ND	ND	ND	ND	0.58 J
OU10-MW03S	OU10	15-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.46 J
		08-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.58 J
		03-Oct-94	ND	ND	ND	ND	ND	ND	(11)	1.0	ND	NS
		06-Jan-95	ND	ND	ND	ND	ND	ND	(14)	1.0	ND	NS
		19-Apr-00	ND	ND	ND	ND	ND	ND	(8.6)	ND	ND	NS
		17-Oct-00	ND	0.24 J	ND	ND	ND	ND	(7.4)	ND	ND	ND
		11-Apr-01	ND	ND	ND	ND	ND	ND	(7.9)	ND	ND	ND
		15-Oct-01	ND	ND	ND	ND	ND	ND	(6.5)	ND	ND	ND
		19-Apr-02	ND	ND	ND	ND	ND	ND	(5.3)	ND	ND	ND
		04-Oct-02	ND	ND	ND	ND	ND	ND	(5.5)	ND	ND	ND
		07-Apr-03	ND	ND	ND	ND	ND	ND	(6.6)	ND	ND	ND
		07-Oct-03	ND	ND	ND	ND	ND	ND	(5.5)	ND	ND	ND
		20-Apr-04	ND	ND	ND	ND	ND	ND	4.7	ND	ND	ND
		14-Oct-04	ND	ND	ND	ND	ND	ND	(5.2)	ND	ND	ND

**Table 6-2**  
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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	MCL		5	1,000	700	10,000	5	70	5	5	2	NCL
OU10-MW-06S	OU10	06-Oct-94	ND	ND	ND	ND	ND	ND	ND	2.0	ND	NS
		13-Jan-95	ND	ND	ND	ND	ND	ND	ND	(10)	ND	NS
		24-Apr-98	ND	ND	ND	ND	ND	ND	ND	(13)	ND	NS
		23-Oct-98	ND	ND	ND	ND	ND	ND	ND	(14)	ND	NS
		16-Apr-99	ND	ND	ND	ND	ND	ND	ND	(8.3)	ND	NS
		06-Oct-99	ND	ND	ND	ND	ND	ND	ND	(11)	ND	NS
		06-Oct-99	ND	ND	ND	ND	ND	ND	ND	(14)	ND	NS
		21-Apr-00	ND	ND	ND	ND	ND	ND	ND	(7.2)	ND	NS
		21-Apr-00	ND	ND	ND	ND	ND	ND	ND	(7.7)	ND	NS
		17-Oct-00	ND	0.25 J	ND	ND	ND	ND	ND	(9.7)	ND	ND
		17-Oct-00	ND	0.21 J	0.23 J	ND	ND	ND	ND	(9.5)	ND	ND
		11-Apr-01	ND	ND	ND	ND	ND	ND	ND	(8.5)	ND	ND
		11-Apr-01	ND	ND	ND	ND	ND	ND	ND	(8.9)	ND	ND
		15-Oct-01	ND	ND	ND	ND	ND	ND	ND	(13)	ND	ND
		15-Oct-01	ND	ND	ND	ND	ND	ND	ND	(13)	ND	ND
		19-Apr-02	ND	ND	ND	ND	ND	ND	ND	(10)	ND	ND
		19-Apr-02	ND	ND	ND	ND	ND	ND	ND	(10)	ND	ND
		04-Oct-02	ND	ND	ND	ND	ND	ND	ND	(10)	ND	ND
		04-Oct-02	ND	ND	ND	ND	ND	ND	ND	(10)	ND	ND
		07-Apr-03	ND	ND	ND	ND	ND	ND	ND	(11)	ND	ND
		07-Apr-03	ND	ND	ND	ND	ND	ND	ND	(10)	ND	ND
		14-Oct-03	ND	ND	ND	ND	ND	ND	ND	(11)	ND	ND
		20-Apr-04	ND	ND	ND	ND	ND	ND	ND	(10)	ND	ND
		20-Apr-04	ND	ND	ND	ND	ND	ND	ND	(10)	ND	ND
		14-Oct-04	ND	ND	ND	ND	ND	ND	ND	(11)	ND	ND
OU10-MW-06D	OU10	06-Oct-94	ND	ND	ND	ND	ND	ND	(20)	ND	ND	NS
		13-Jan-95	ND	ND	ND	ND	ND	ND	(10)	ND	ND	NS
		20-Apr-98	ND	ND	ND	ND	ND	ND	2.6	ND	ND	NS
		23-Oct-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
		16-Apr-99	ND	ND	ND	ND	ND	ND	0.99	ND	ND	NS
		08-Oct-99	ND	0.8	ND	1.08 J	ND	ND	(8.8)	ND	ND	NS
		21-Apr-00	ND	ND	ND	ND	ND	ND	(6.5)	ND	ND	NS
		17-Oct-00	ND	0.20 J	ND	ND	ND	ND	(5.0)	ND	ND	ND
		11-Apr-01	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND
		15-Oct-01	ND	ND	ND	ND	ND	ND	(5.3)	ND	ND	ND
		19-Apr-02	ND	ND	ND	ND	ND	ND	2.1	ND	ND	ND
		04-Oct-02	ND	ND	ND	ND	ND	ND	0.69 J	ND	ND	ND
		07-Apr-03	ND	ND	ND	ND	ND	ND	3.0	ND	ND	ND
		14-Oct-03	ND	ND	ND	ND	ND	ND	0.51 J	ND	ND	ND
		20-Apr-04	ND	ND	ND	ND	ND	ND	0.62 J	ND	ND	ND
		14-Oct-04	ND	ND	ND	ND	ND	ND	0.45 J	ND	ND	ND
OU10-MW-11S	OU10	05-Oct-94	ND	ND	ND	ND	ND	ND	(10)	ND	ND	NS
		10-Jan-95	ND	ND	ND	ND	ND	ND	(11)	ND	ND	NS
		27-Apr-98	ND	ND	ND	ND	ND	ND	(12)	ND	ND	NS
		20-Oct-98	ND	ND	ND	ND	ND	ND	(12)	0.39 J	ND	NS
		21-Apr-99	ND	ND	ND	ND	ND	ND	(8.4)	ND	ND	NS
		13-Oct-99	ND	ND	ND	ND	ND	ND	(9.9)	0.39 J	ND	NS
		18-Apr-00	ND	ND	ND	ND	ND	ND	(12)	0.37 J	ND	NS
		18-Oct-00	0.10 J	0.21 J	ND	ND	ND	ND	(9.4)	0.24 J	ND	ND
		16-Apr-01	ND	ND	ND	ND	ND	ND	(9.7)	ND	ND	ND
		12-Oct-01	ND	ND	ND	ND	ND	ND	(9.4)	0.25 J	ND	ND
		17-Apr-02	ND	ND	ND	ND	ND	ND	(8.3)	0.23 J	ND	ND
		16-Oct-02	ND	ND	ND	ND	ND	ND	(9.3)	ND	ND	ND
		15-Apr-03	ND	ND	ND	ND	ND	ND	(9.5)	ND	ND	ND
		06-Oct-03	ND	ND	ND	ND	ND	ND	(9.5)	ND	ND	ND
		19-Apr-04	ND	ND	ND	ND	ND	ND	(11)	0.23 J	ND	ND
		12-Oct-04	ND	ND	ND	ND	ND	ND	(13)	ND	ND	ND
OU10-MW-11D	OU10	05-Oct-94	ND	ND	ND	ND	ND	ND	ND	(6.0)	ND	NS
		10-Jan-95	ND	ND	ND	ND	ND	ND	ND	(7.0)	ND	NS
		23-Apr-98	ND	ND	ND	ND	ND	ND	0.65 J	3.0	ND	NS
		20-Oct-98	ND	ND	ND	ND	ND	ND	0.92	(10)	ND	NS
		16-Apr-99	ND	ND	ND	ND	ND	ND	0.64	(6.2)	ND	NS
		06-Oct-99	ND	ND	ND	ND	ND	ND	1.9	(9.2)	ND	NS
		18-Apr-00	ND	ND	ND	ND	ND	ND	1.2	3.4	ND	NS
		18-Oct-00	ND	0.21 J	ND	ND	ND	ND	0.70 J	2.4	ND	ND
		16-Apr-01	ND	ND	ND	ND	ND	ND	0.42 J	1.9 J	ND	ND
		12-Oct-01	ND	ND	ND	ND	ND	ND	1.6	(6.9)	ND	ND
		22-Apr-02	ND	ND	ND	ND	ND	ND	1.7	(9.6)	ND	ND
		04-Oct-02	ND	ND	ND	ND	ND	ND	1.6	(7.3)	ND	ND
		10-Apr-03	ND	ND	ND	ND	ND	ND	1.6	(8.6)	ND	ND
		06-Oct-03	ND	ND	ND	ND	ND	ND	1.7	(8.6)	ND	ND
		19-Apr-04	ND	ND	ND	ND	ND	ND	2.1	(8.1)	ND	ND
		12-Oct-04	ND	ND	ND	ND	ND	ND	2.3	(9.8)	ND	ND

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Sample Location	Management Area	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2-DCA (µg/L)	Total 1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	MTBE (µg/L)
	<b>MCL</b>		<b>5</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>NCL</b>
OU10-MW-19D	OU10	06-Oct-94	ND	ND	ND	ND	ND	ND	ND	(7.0)	ND	NS
		11-Jan-95	ND	ND	ND	ND	ND	ND	ND	(6.0)	ND	NS
		24-Apr-98	ND	ND	ND	ND	ND	ND	ND	(7.1)	ND	NS
		20-Oct-98	ND	ND	ND	ND	ND	ND	ND	(5.7)	ND	NS
		19-Apr-99	ND	ND	ND	ND	ND	ND	ND	3.4	ND	NS
		06-Oct-99	ND	ND	ND	ND	ND	ND	ND	(5.4)	ND	NS
		19-Apr-00	ND	ND	ND	ND	ND	ND	ND	(5.8)	ND	NS
		20-Oct-00	ND	ND	ND	ND	ND	ND	ND	(5.1)	ND	ND
		10-Apr-01	ND	ND	ND	ND	ND	ND	ND	4.6	ND	ND
		10-Oct-01	ND	ND	ND	ND	ND	ND	ND	4.8	ND	ND
		Duplicate	ND	ND	ND	ND	ND	ND	ND	4.7	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	ND	ND	4.6	ND	ND
		Duplicate	ND	ND	ND	ND	ND	ND	ND	4.8	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	ND	ND	4.8	ND	ND
		30-Sep-02	ND	ND	ND	ND	ND	ND	ND	4.3	ND	ND
		Duplicate	ND	ND	ND	ND	ND	ND	ND	4.1	ND	ND
		30-Sep-02	ND	ND	ND	ND	ND	ND	ND	4.1	ND	ND
		10-Apr-03	ND	ND	ND	ND	ND	ND	ND	3.8	ND	ND
		02-Oct-03	ND	0.22 J	ND	ND	ND	ND	0.16 J	3.3	ND	ND
		26-Apr-04	ND	ND	ND	ND	ND	ND	ND	3.3	ND	ND
		20-Oct-04	ND	ND	ND	ND	ND	ND	0.27 J	3.2	ND	ND
OU10-MW-21S	OU10	05-Oct-94	ND	ND	ND	ND	ND	ND	ND	(9.0)	ND	NS
		12-Jan-95	ND	ND	ND	ND	ND	ND	ND	(7.0)	ND	NS
		23-Apr-98	ND	ND	ND	ND	ND	ND	ND	(10)	ND	NS
		27-Oct-98	ND	ND	ND	ND	ND	ND	ND	(9.4)	ND	NS
		14-Apr-99	ND	ND	ND	ND	ND	ND	ND	(6.8)	ND	NS
		07-Oct-99	ND	ND	ND	ND	ND	ND	ND	(9.3)	ND	NS
		19-Apr-00	ND	ND	ND	ND	ND	ND	ND	(8.7)	ND	NS
		19-Oct-00	ND	ND	ND	ND	ND	ND	ND	(8.4)	ND	ND
		18-Apr-01	ND	ND	ND	ND	ND	ND	ND	(6.3)	ND	ND
		10-Oct-01	ND	ND	ND	ND	ND	ND	ND	(7.3)	ND	ND
		24-Apr-02	ND	ND	ND	ND	ND	ND	ND	(6.8)	ND	ND
		02-Oct-02	ND	ND	ND	ND	ND	ND	ND	(6.1)	ND	ND
		16-Apr-03	ND	ND	ND	ND	ND	ND	ND	(5.4)	ND	ND
		02-Oct-03	ND	0.22 J	ND	ND	ND	ND	ND	(5.5)	ND	ND
		15-Apr-04	ND	ND	ND	ND	ND	ND	ND	4.9	ND	ND
		08-Oct-04	ND	ND	ND	ND	ND	ND	ND	(5.4)	ND	ND
OU10-MW-25S	OU10	08-Oct-94	ND	ND	ND	ND	ND	ND	(19)	ND	ND	NS
		12-Jan-95	ND	ND	ND	ND	ND	ND	(22)	ND	ND	NS
		24-Apr-98	ND	ND	ND	ND	ND	ND	(19)	ND	ND	NS
		20-Oct-98	ND	ND	ND	ND	ND	ND	(18)	ND	ND	NS
		16-Apr-99	ND	ND	ND	ND	ND	ND	(11)	ND	ND	NS
		06-Oct-99	ND	ND	ND	ND	ND	ND	(16)	ND	ND	NS
		18-Apr-00	ND	ND	ND	ND	ND	ND	(22)	ND	ND	NS
		17-Oct-00	ND	0.26 J	ND	ND	ND	ND	(19)	ND	ND	NS
		12-Apr-01	ND	ND	ND	ND	ND	ND	(19)	ND	ND	ND
		15-Oct-01	ND	ND	ND	ND	ND	ND	(18)	ND	ND	ND
		22-Apr-02	ND	ND	ND	ND	ND	ND	(17)	ND	ND	ND
		30-Sep-02	ND	ND	ND	ND	ND	ND	(13)	ND	ND	ND
		09-Apr-03	ND	ND	ND	ND	ND	ND	(11)	ND	ND	ND
		01-Oct-03	ND	ND	ND	ND	ND	ND	(8.9)	ND	ND	ND
		Duplicate	ND	ND	ND	ND	ND	ND	(7.3)	ND	ND	ND
		12-Apr-04	ND	ND	ND	ND	ND	ND	(9.8)	ND	ND	ND
		Duplicate	ND	ND	ND	ND	ND	ND	(5.9)	ND	ND	ND
		14-Oct-04	ND	ND	ND	ND	ND	ND	(6.1)	ND	ND	ND
HD-13S-AB (ambient blank)	OU5	14-Oct-04	0.38 J	1.4	0.23 J	1.0	ND	ND	ND	ND	ND	ND

1,2-DCA - 1,2-Dichloroethane  
1,2-DCE - 1,2-Dichloroethene (Total)  
TCE - Trichloroethylene  
PCE - Tetrachloroethylene  
MTBE - Methyl tert-butyl ether  
µg/L - Micrograms per liter

MCLs - Maximum Contaminant Levels.  
NCL - No compliance level set  
( ) - Concentration exceeds MCL.  
ND - Concentration is below detection limits.  
NS - Not Sampled  
NR - Not reported

R - Surrogate recovery was outside stated control limits.  
J - Estimated Result. Concentration less than reporting limit but above detection limit.  
D - Result obtained from the analysis of a dilution



## FIGURES





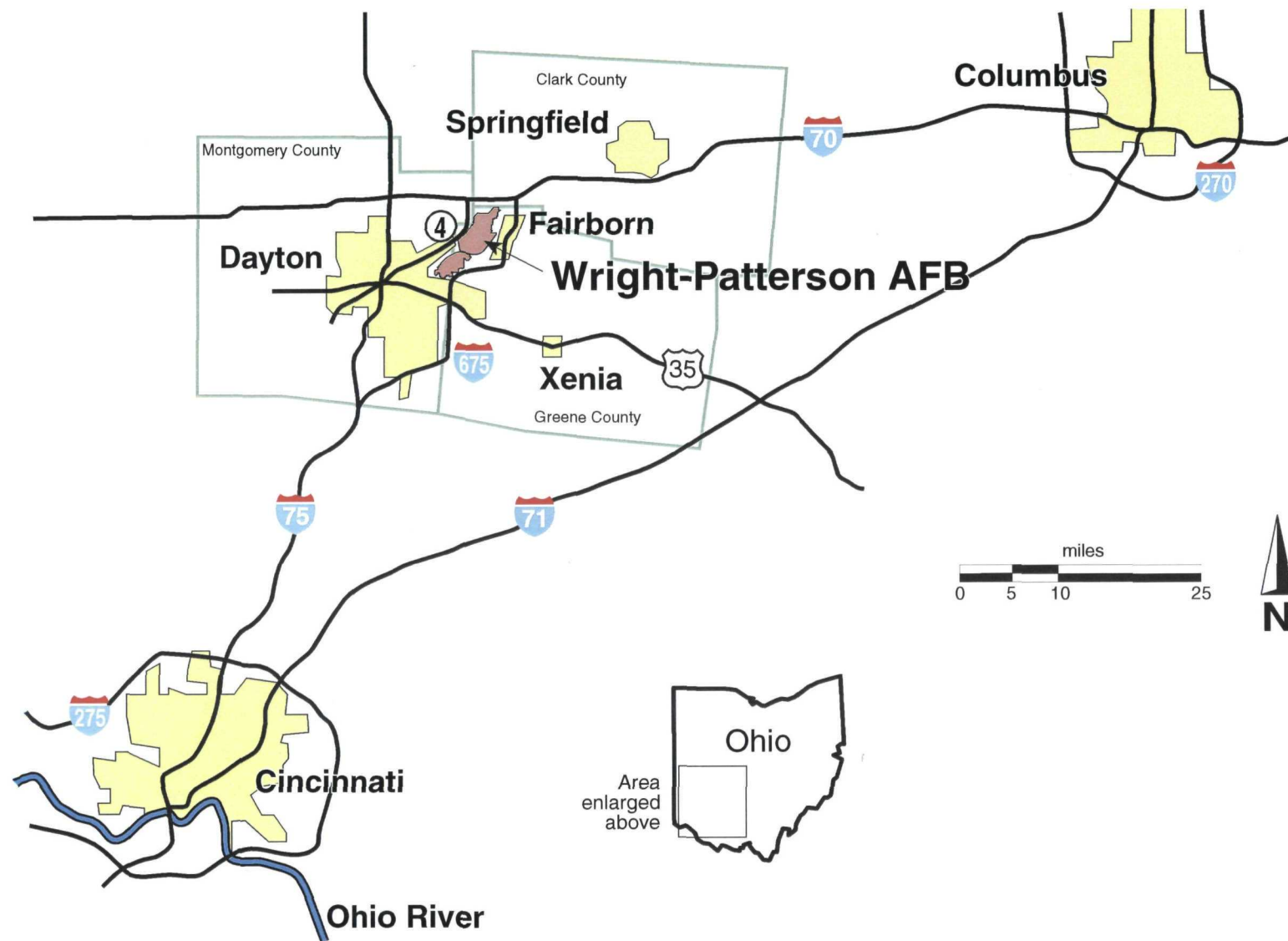


Figure 1-1. Area Location Map.

Source: ES, 1982

DRAWING BY	JIS, III	CHECKED BY	PCM	2/1/95	DRAWING NO. S-777097.0108-4/99-4w
	4/1/99		SW5	2/1/95	

DRAWING NO.	S-777097.0108-0101-1W	
	1/26/01	1/26/01
CHECKED BY	MWC	JKT
	7/13/99	
APPROVED BY		
DRAWING BY	JIS, III	

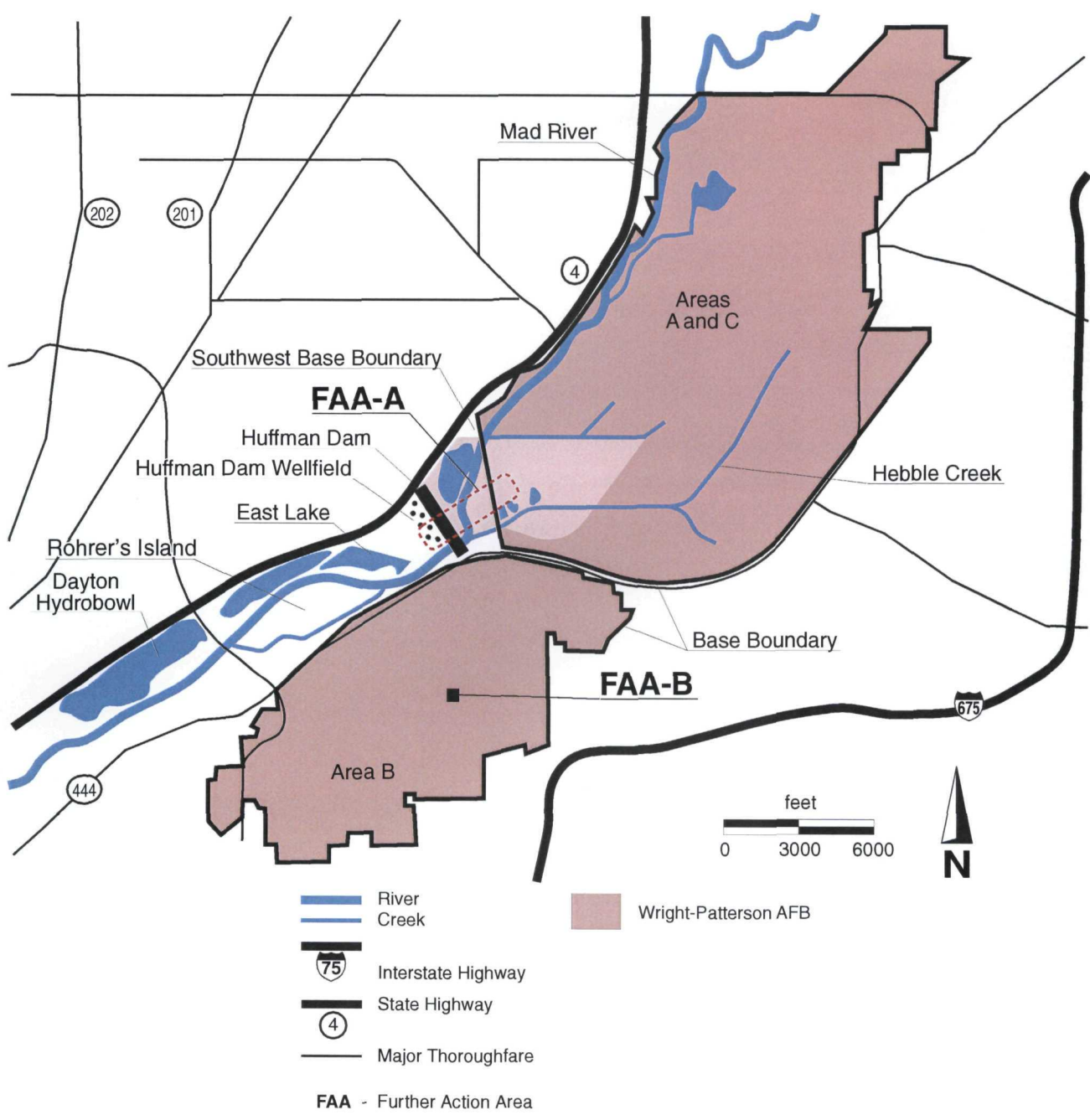


Figure 1-2. Site Location.

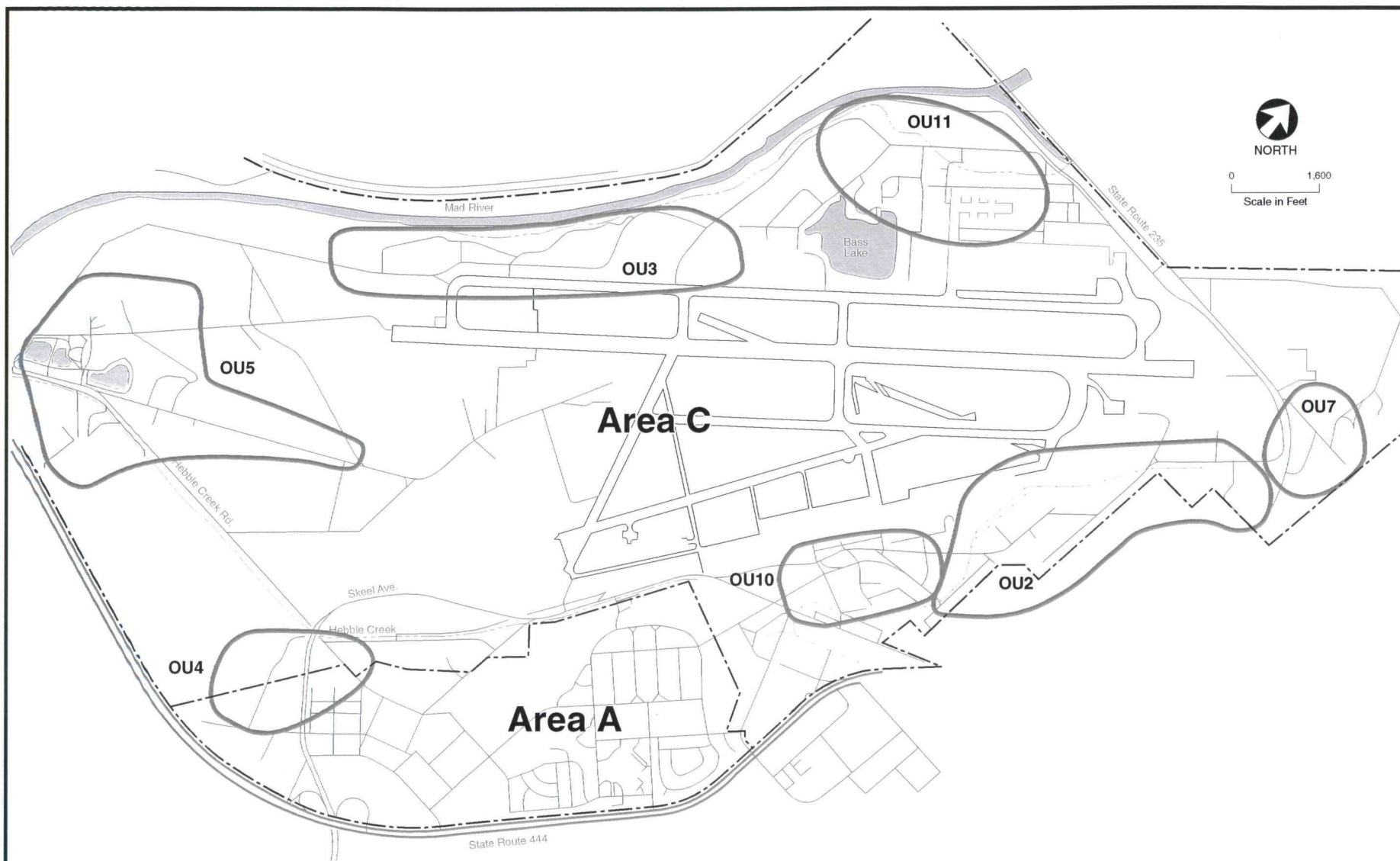


Figure 1-3. WPAFB OUs -  
Areas A and C.

Source: Map (CH2M Hill, 1994)

DRAWING	JIS, III	CHECKED BY	TAC	12/15/98	DRAWING NO.
BY	4/1/99	APPROVED BY	JRT	1/26/01	S-777097.0108-4/99-3w

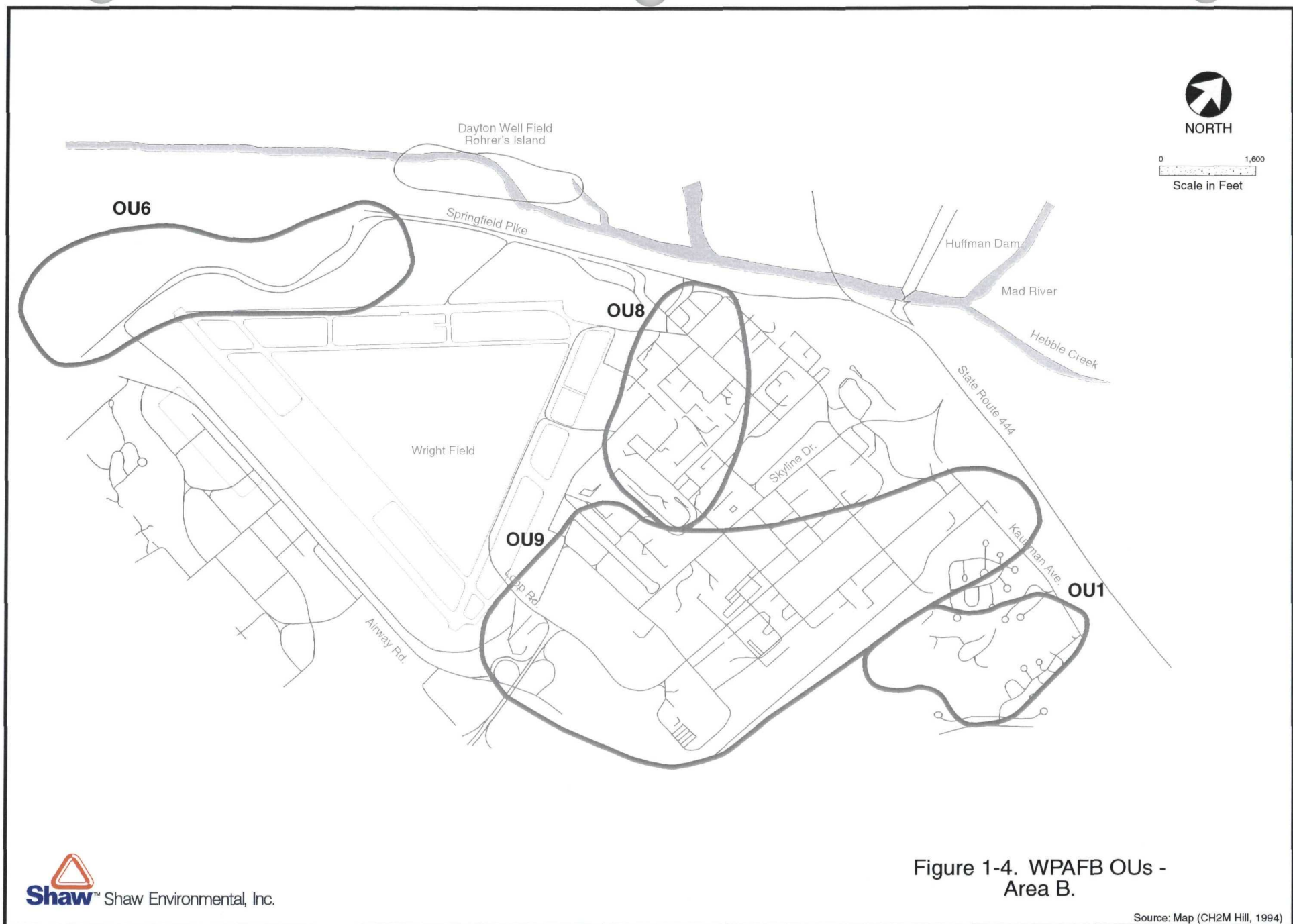
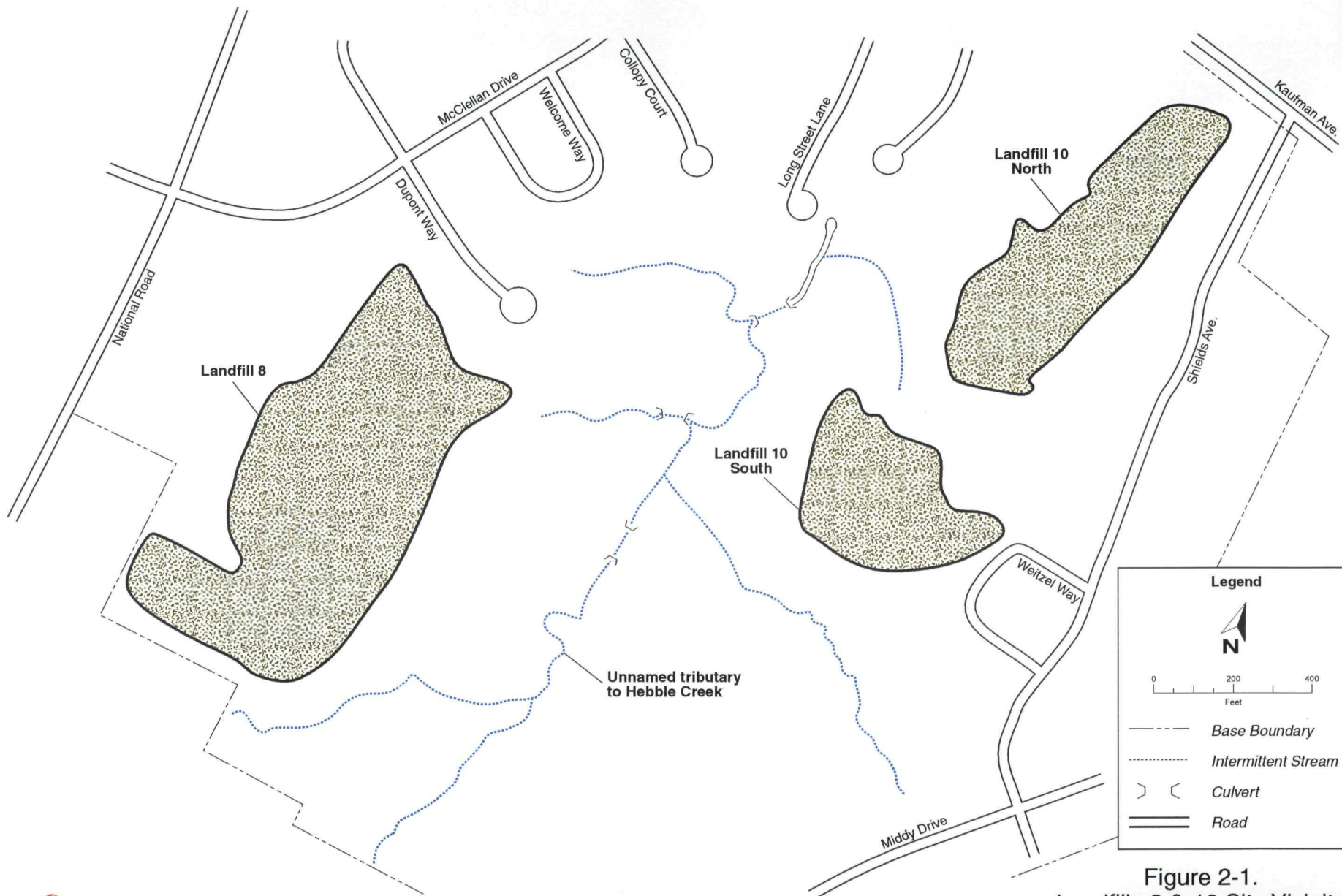


Figure 1-4. WPAFB OUs -  
Area B.

DRAWING BY	JIS, III	CHECKED BY	JIS, III	4/21/95	DRAWING NO. S-777097.0108-4/99-2w
	4/1/99	APPROVED BY	SRS	4/24/95	



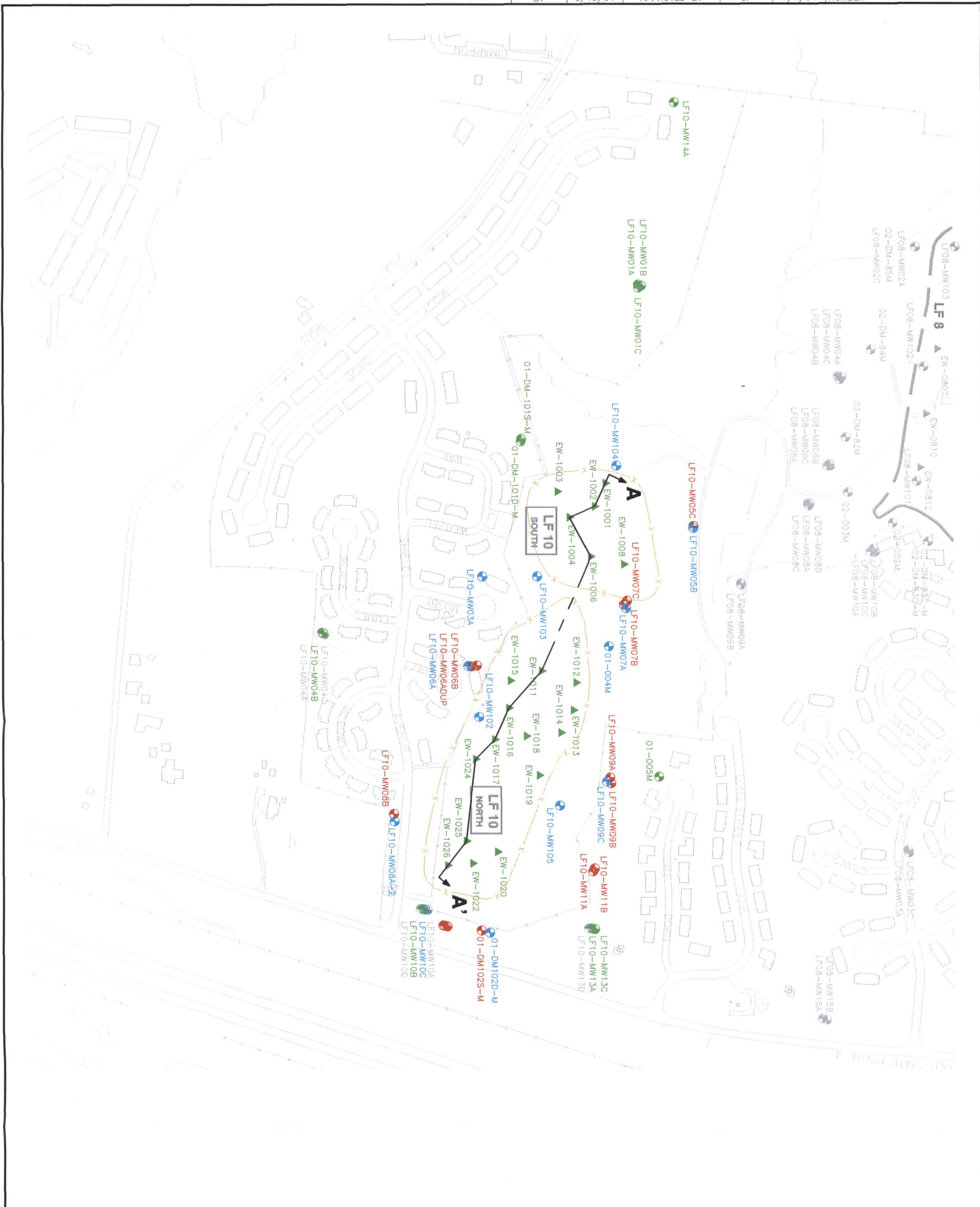


**Figure 2-1.**  
**Landfills 8 & 10 Site Vicinity**

Prepared for  
Wright-Patterson Air Force Base  
Dayton, OH







**LEGEND:**

- MONITORING WELL SAMPLED ANNUALLY
- MONITORING WELL SAMPLED SEMI ANNUALLY
- MONITORING WELL SAMPLED SEMI ANNUALLY
- EXTRACTION WELL LOCATIONS
- A --- A' LITHOLOGIC CROSS-SECTION LINE
- x-x- FENCE

SCALE: 1"=300'

0 100 200 300 600



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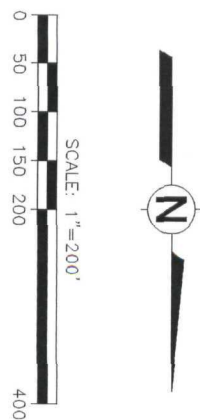
**Figure 2-3**  
**Landfill 10 Site Map**





**LEGEND:**

- ▲ LFG PUNCHBAR LOCATION
- LFG MONITORING PROBE LOCATION



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**Figure 2-4**  
Landfill 8  
Landfill Gas Monitoring Locations

- LEGEND:**
- GAS BARRIER TRENCH MONITORING POINT
  - ▲ LFG PUNCHBAR LOCATION
  - LFG MONITORING PROBE LOCATION
  - GAS BARRIER TRENCH

SCALE: 1"=200'

0 50 100 150 200 400



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**Figure 2-5**

**Landfill 10**  
**Landfill Gas Monitoring Locations**



LF08-MW05B	GW-01	Lab	GW-DUP	Lab
Chemical	Qual.		Qual.	
VOC (µg/L)	0.34	J	0.35	J
Benzene	ND		ND	
SVOC (µg/L)	ND		ND	
PEST/PCB (µg/L)	ND		ND	
DIOXIN (pg/L)	1.1	JBQ	ND	JB
1,2,3,4,6,7,8-HPCDF	8.3	JB	10	JB
OCDF	5.0	JBQ	6.8	JB

02-DM-84-M	GW-01	Lab	GW-DUP	Lab
Chemical	Qual.		Qual.	
VOC (µg/L)	0.64	J	0.83	J
Benzene	ND		ND	
SVOC (µg/L)	ND		ND	
PEST/PCB (µg/L)	ND		ND	
DIOXIN (pg/L)	ND		0.57	JBQ
Total-HPCCD	0.43	JB	3.4	JB
1,2,3,4,6,7,8-HPCDF	2.8	JB		
OCDF				

LF08-MW101	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
Benzene	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	7.0	JB
Total-HPCCD	2.7	JBQ
1,2,3,4,6,7,8-HPCDF	1.5	JB
OCDF	15	JB
	8.5	JB

LF08-MW11A	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	0.37	J
Benzene	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	2.0	
Aroclor 1242		
OCDF	5.7	JB

LF08-MW11B	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	3.7	JBQ
OCDF	2.6	JBQ

LF08-MW11C	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	2.6	JB
Total-HPCCD	3.7	JB
OCDF	1.2	JBQ

02-DM-83D-M	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	ND	
OCDF	3.2	JBQ

02-DM-83S-M	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	0.62	JD
Benzene	0.67	JD
Vinyl Chloride	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	0.5	JB
Total-HPCCD	3.2	JB
OCDF		

LF08-MW10A	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	3.3	JB
OCDF		

LF08-MW10B	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	5.1	
Vinyl Chloride	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	2.6	JBQ
OCDF		

LF08-MP013	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	DRY	
SVOC (µg/L)	DRY	
PEST/PCB (µg/L)	DRY	
DIOXIN (pg/L)	DRY	

LF08-MW103	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	1.5	JBQ
Total-HPCCD	6.8	JB
OCDF		

02-DM-81S-M	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	0.19	J
Toluene		
SVOC (µg/L)	1.0	J
4-Methylphenol		
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	3.0	JB
Total-HPCCD	1.5	JBQ
1,2,3,4,6,7,8-HPCDF	1.3	JBQ
1,2,3,4,7,8-HXCCD	9.4	JBQ
OCDF	6.3	JB

LF08-MW103	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	1.5	JBQ
Total-HPCCD	6.8	JB
OCDF		

LF08-MW104	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	1.9	JB
Total-HPCCD	1.2	JBQ
1,2,3,4,6,7,8-HPCDF	4.7	JB
OCDF	4.2	JB

LF08-MW09A	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	NC	
PEST/PCB (µg/L)	NC	
DIOXIN (pg/L)	NC	
OCDF		

02-DM-82-M	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	5.3	JBQ
Total-HPCCD	2.7	JBQ
1,2,3,4,6,7,8-HPCDF	12	JB
OCDF	5.8	JB

LF08-MW08A	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	1.9	JB
Total-HPCCD	1.2	JBQ
1,2,3,4,6,7,8-HPCDF	4.7	JB
OCDF	4.2	JB

LF08-MW08B	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	1.8	JBQ
Total-HPCCD	1.7	JB
1,2,3,4,6,7,8-HPCDF	7.5	JB
OCDF	5.9	JB

LF08-MW08C	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	1.8	JBQ
Total-HPCCD	1.7	JB
1,2,3,4,6,7,8-HPCDF	7.5	JB
OCDF	5.9	JB

LF08-MW08D	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	1.8	JBQ
Total-HPCCD	1.7	JB
1,2,3,4,6,7,8-HPCDF	7.5	JB
OCDF	5.9	JB

LF08-MW02A	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	1.5	JB
1,2,3,4,6,7,8-HPCDF	8.7	JB
OCDF	4.5	JBQ

LF08-MW02C	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	1.5	JBQ
Total-HPCCD	1.2	JB
1,2,3,4,6,7,8-HPCDF	5.1	JB
OCDF	2.0	JBQ

LF08-MW102	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	6.5	JB
OCDF	5.0	JB

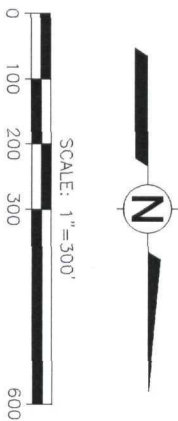
LF08-MW09B	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	NC	
PEST/PCB (µg/L)	NC	
DIOXIN (pg/L)	NC	
OCDF		

LF08-MW09C	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	NC	
PEST/PCB (µg/L)	NC	
DIOXIN (pg/L)	NC	
OCDF		

LF08-MW09D	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	ND	
SVOC (µg/L)	NC	
PEST/PCB (µg/L)	NC	
DIOXIN (pg/L)	NC	
OCDF		

LEGEND:

- MONITORING WELL LOCATION
- EXTRACTION WELL LOCATION
- LFG MONITORING PROPE LOCATION
- ORGANIC CONCENTRATION (µg/L) (RED=>MCL)
- AND/OR ROD COMPLIANCE LEVEL)
- NC NOT COLLECTED
- ND NOT DETECTED



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Figure 2-6  
Landfill 8  
Detected Organic Chemicals of Concern:  
October 2004



**LEGEND:**  
 MONITORING WELL LOCATION  
 EXTRACTION WELL LOCATION  
 ND NOT DETECTED  
 17 INORGANIC CONCENTRATION (µg/L)  
 (RED=>MCL AND/OR ROD COMPLIANCE LEVEL)

SCALE: 1"=300'  
 0 100 200 300 600



LF08-MW02C		GW-01	Lab
Chemical			
Metals (µg/L)	19		
Arsenic	4,000		
Iron			
General Chemistry (µg/L)	1,000		
Ammonia			

LF08-MW102		GW-01	Lab
Chemical			
Metals (µg/L)			
Iron	1,000		
General Chemistry (µg/L)	400		
Ammonia			

LF08-MW02A		GW-01	Lab
Chemical			
Metals (µg/L)	5,800		
Iron			
General Chemistry (µg/L)	1,000		
Ammonia			

LF08-MW103		GW-01	Lab
Chemical			
Metals (µg/L)	2,200		
Iron	140		
Zinc			
General Chemistry (µg/L)	700		
Ammonia			

LF08-MW05B		GW-01	Lab
Chemical			
Metals (µg/L)	2,200		
Iron			
General Chemistry (µg/L)	300		
Ammonia			

02-DM-81D-M		GW-01	Lab
Chemical			
Metals (µg/L)	18		
Arsenic	3,200		
Iron			
General Chemistry (µg/L)	400		
Ammonia			

02-DM-81S-M		GW-01	Lab
Chemical			
Metals (µg/L)	ND		
General Chemistry (µg/L)	500		
Ammonia			

02-DM-84-M		GW-01	Lab
Chemical			
Metals (µg/L)	52		
Arsenic	21,500		
Iron	22,200		
General Chemistry (µg/L)	500		
Ammonia	700		

LF08-MW101		GW-01	Lab
Chemical			
Metals (µg/L)	1,700		
Iron	150		
Zinc			
General Chemistry (µg/L)	700		
Ammonia			

LF08-MW11A		GW-01	Lab
Chemical			
Metals (µg/L)	460		
Iron			
General Chemistry (µg/L)	800		
Ammonia			

02-DM-83D-M		GW-01	Lab
Chemical			
Metals (µg/L)	ND		
General Chemistry (µg/L)	ND		
Ammonia			

02-DM-83S-M		GW-01	Lab
Chemical			
Metals (µg/L)	ND		
General Chemistry (µg/L)	ND		
Ammonia			

LF08-MW10A		GW-01	Lab
Chemical			
Metals (µg/L)	36		
Arsenic	2,200		
Iron			
General Chemistry (µg/L)	2,800		
Ammonia			

LF08-MW10B		GW-01	Lab
Chemical			
Metals (µg/L)	850		
Iron			
General Chemistry (µg/L)	ND		
Ammonia			

LF08-MW10C		GW-01	Lab
Chemical			
Metals (µg/L)	550		
Iron			
General Chemistry (µg/L)	ND		
Ammonia			

02-DM-82-M		GW-01	Lab
Chemical			
Metals (µg/L)	190		
Iron			
General Chemistry (µg/L)	400		
Ammonia			

LF08-MW09A		GW-01	Lab
Chemical			
Metals (µg/L)	25		
Arsenic	1,700		
Iron			
General Chemistry (µg/L)	900		
Ammonia			

LF08-MW08B		GW-01	Lab
Chemical			
Metals (µg/L)	510		
Iron			
General Chemistry (µg/L)	900		
Ammonia			

LF08-MW08C		GW-01	Lab
Chemical			
Metals (µg/L)	690		
Iron			
General Chemistry (µg/L)	200		
Ammonia			

LF08-MW09A		GW-01	Lab
Chemical			
Metals (µg/L)	ND		
General Chemistry (µg/L)	500		
Ammonia			

LF08-MW09B		GW-01	Lab
Chemical			
Metals (µg/L)	ND		
General Chemistry (µg/L)	ND		
Ammonia			



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**Figure 2-7**  
**Landfill 8**  
**Detected Inorganic Chemicals of Concern:**  
**October 2004**



LF10-MW07A		Lab	
Chemical	GW-01	Qual.	GW-DUP
			Qual.
VOC (µg/L)	ND		ND
SVOC (µg/L)	ND		ND
PEST/PCB (µg/L)	ND		ND
DIOXIN (pg/L)			
OCDD	ND		1.3 JBQ
OCDF	ND		1.7 JB

LF10-MM104		GW-01	Lab
Chemical			Qual.
VOC (µg/L)	DRY		
SVOC (µg/L)	DRY		
PESTPCB (µg/L)	DRY		
DIOXIN (pg/L)	DRY		

01-004-M		GW-01	Lab
Chemical		Quant.	
VOC (µg/L)	ND		
SVOC (µg/L)	ND		
PEST/POB (µg/L)	ND		
DIOXIN (pg/L)	1.3		JB
1,2,3,4,7,8-HPCDF	3.8		JB
OCDD	2.5		JBQ
OCDF			

Chemical		GW-01	Lab
		Qual.	
VOC (µg/L)		0.37	J
Benzene		0.49	J
Total Xylenes			
SVOC (µg/L)		DRY	
PEST/PCB (µg/L)		DRY	
DIOXIN (pg/L)		DRY	

LF-10-MW06A		GW-01
Chemical		Lab Qual.
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)	ND	

LF-10-MW06A DUP		GW-01	Lab
Chemical		Qual	
VOC ( $\mu\text{g/L}$ )		0.98	JB
Total Xylenes			
SVOC ( $\mu\text{g/L}$ )			
PEST/PCB ( $\mu\text{g/L}$ )			
DIOXIN ( $\mu\text{g/L}$ )			
		DRY	
		DRY	
		DRY	

Chemical	GW-01	Lab
LF-10-MW05B		Qual.
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)		
OCDD	2.0	JBQ

LF10-MW07B  
LF10-MW07A  
LF10-MW07C

VAN DORN  
LM10-MW13C  
MW09B  
MW09C

LF-10-MW09C		GW-01	Lab
Chemical			Qua
VOC (µg/L)		2.7	
Benzene			
SVOC (µg/L)			ND
PEST/PCB (µg/L)			ND
DIOXIN (pg/L)		ND	

LF10-MW1B	GW-01		GW-DUP	
	Lab Qual.		Lab Qual.	
Chemical				
VOC (µg/L)	ND		ND	
SVOC (µg/L)	ND		ND	
PEST/PCB (µg/L)	ND		ND	
DIOXIN (pg/L)	ND		ND	

01-DM-102S-M		GW-01	Lab
Chemical			Qual.
VOC (µg/L)		DRY	
SVOC (µg/L)		DRY	
PEST/PCB (µg/L)		DRY	
DIOXIN (pg/L)		DRY	
01-DM-102D-M		GW-01	Lab
Chemical			Qual.
VOC (µg/L)		ND	
SVOC (µg/L)		ND	
PEST/PCB (µg/L)		ND	
DIOXIN (pg/L)			
OCDD		4.8	JB

Chemical	GW-01	Lab
LEF-0-MW-10C		
VOC (µg/L)	ND	
SVOC (µg/L)	ND	
PEST/PCB (µg/L)	ND	
DIOXIN (pg/L)		
Total-HPCDD	5.0	JB
1,2,3,4,6,7,8-HPCDF	2.3	JBQ
1,2,3,4,7,8-HxCDD	2.3	JBQ
OCDD	12	JB
OCDF	8.8	JB

<b>LE-10-MW08A-2</b>		GW-01	Lab
Chemical		Qual	
VOC (µg/L)	ND		
SVOC (µg/L)	ND		
PEST/PCB (µg/L)	ND		
DIOXIN (pg/L)			
1,2,3,4,6,7,8-HPCDF	0.91	JBC	
OCDF	4.0	JBC	
OCDF	2.0	JBC	
<b>LE-10-MW08B</b>		GW-01	Lab
Chemical		Qual	
VOC (µg/L)	ND		
SVOC (µg/L)	ND		
PEST/PCB (µg/L)	ND		
DIOXIN (pg/L)			
OCDF	3.9	JBC	

LEI-0-MW102	GW-01	Lab
Chemical	Qual.	
VOC (µg/L)	DRY	
SVOC (µg/L)	DRY	
PEST/PCB (µg/L)	DRY	
DIOXIN (pg/L)	DRY	

\* MW06A DUP is a separate well

MONITORING WELL LOCATION

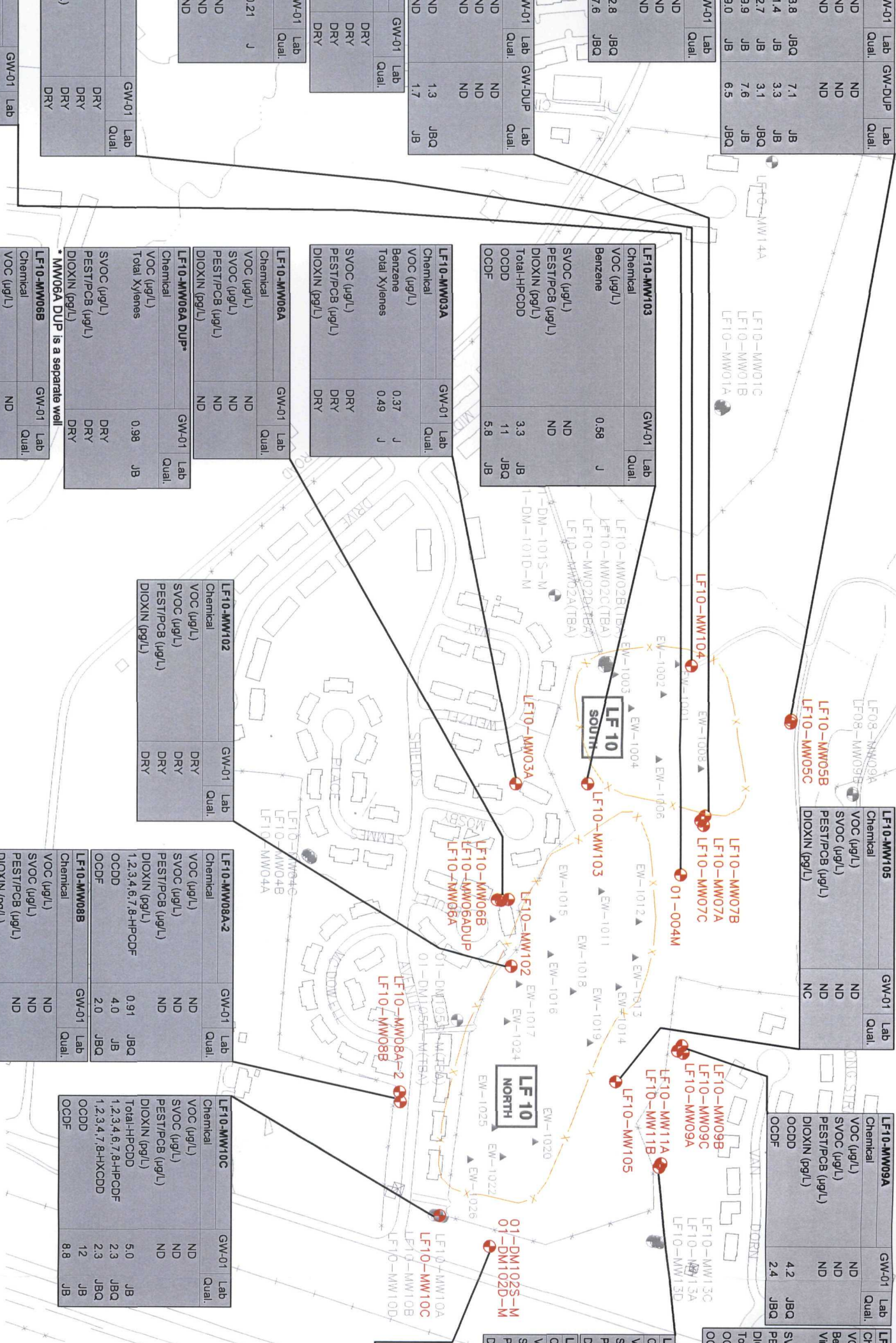
EXTRACTION WELL LOCATION

ND NOT DETECTED

### 1.6 ORGANIC CONCENTRATION ( $\mu\text{g/L}$ ) (RED=>MCL

AND/OR ROD COMPLIANCE LEVEL)

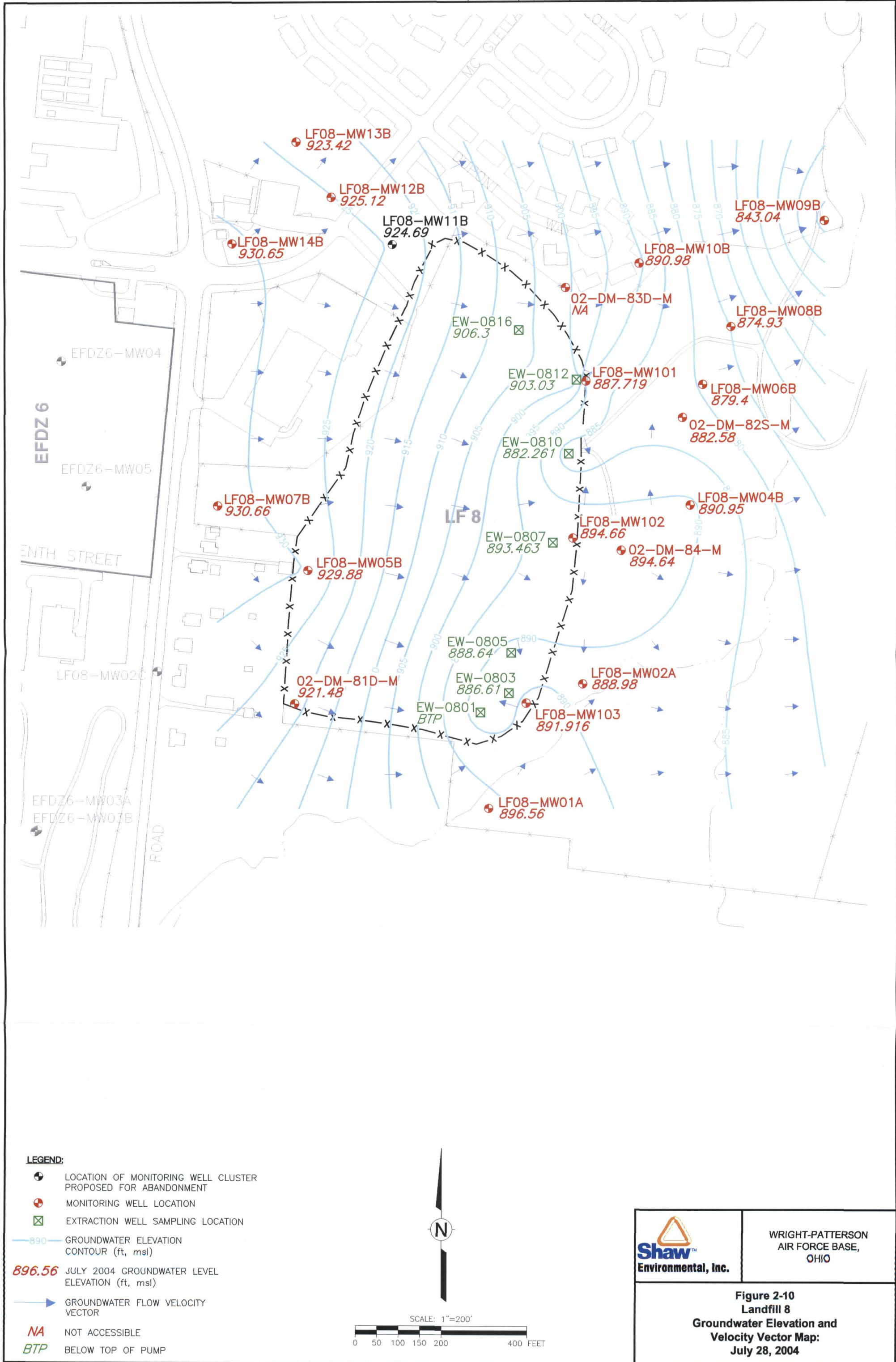
DRY - WELL DID NOT PRODUCE ENOUGH WATER TO COLLECT SAMPLES.





M. Najjar - D:\Acad 2005\2005 05\2005 05-20.dwg - Wednesday, 5/11/05 - 8:51 AM



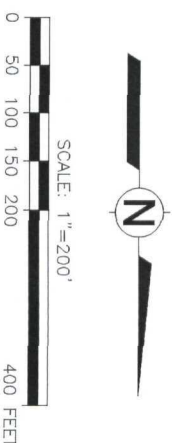






**LEGEND:**

- MONITORING WELL LOCATION
- ⊠ EXTRACTION WELL SAMPLING LOCATION
- PARTICLE TRACK WITH FLOW DIRECTION

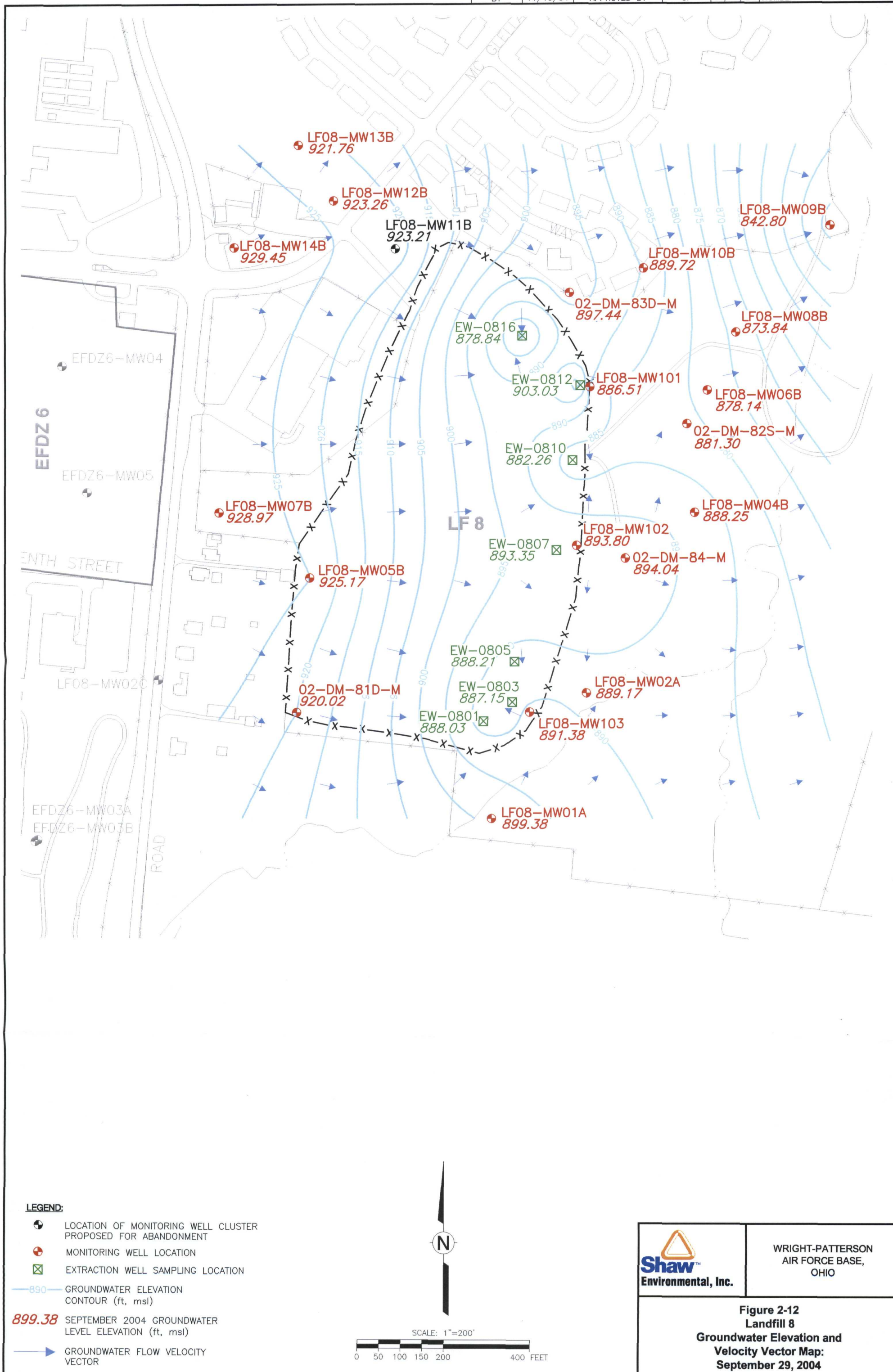


WRIGHT-PATTERSON  
AIR FORCE BASE,  
OHIO

Figure 2-11

Landfill 8  
Particle Track Plot:  
July 28, 2004



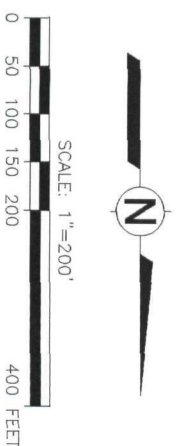






**LEGEND:**

- MONITORING WELL LOCATION
- EXTRACTION WELL SAMPLING LOCATION
- PARTICLE TRACK WITH FLOW DIRECTION



WRIGHT-PATTERSON  
AIR FORCE BASE,  
OHIO

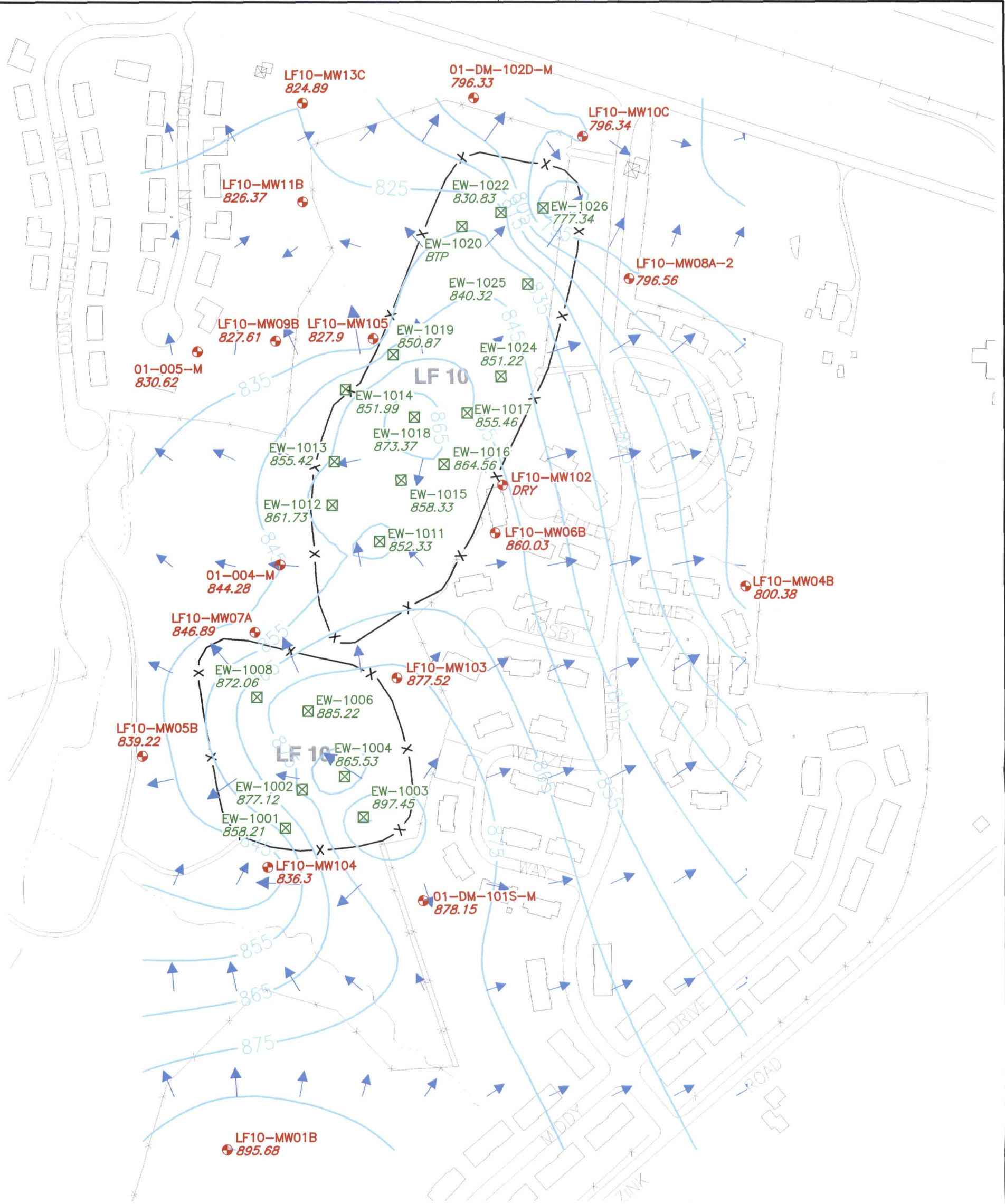
Figure 2-13

Landfill 8  
Particle Track Plot:  
September 29, 2004



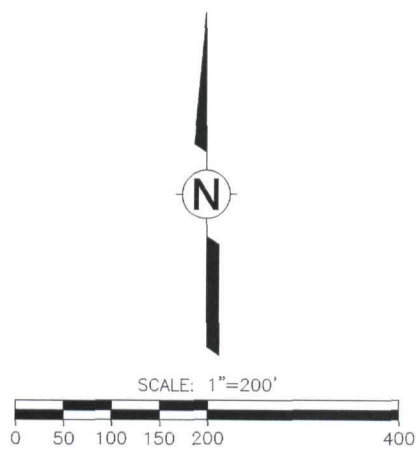






**LEGEND:**

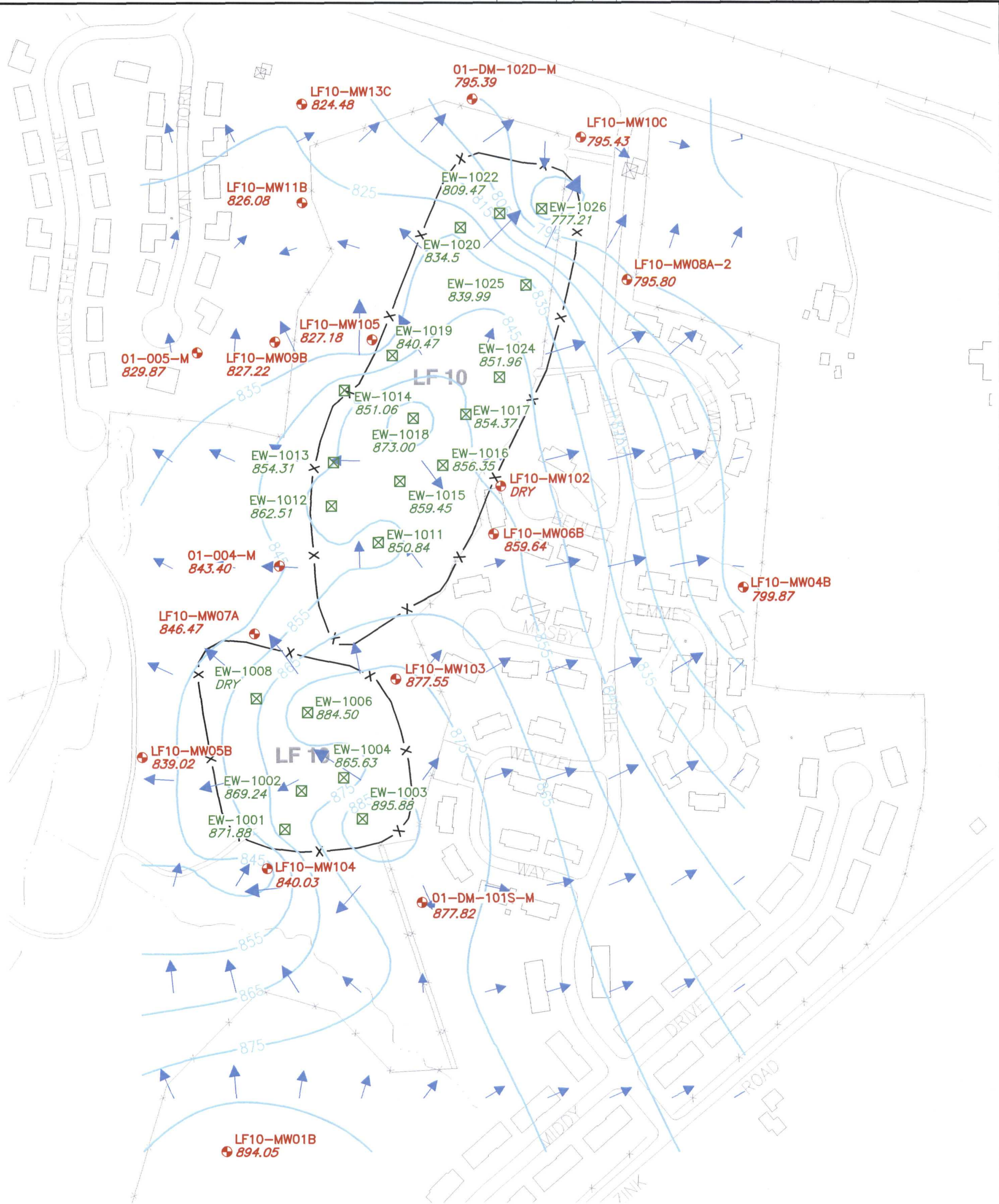
- MONITORING WELL LOCATION
- EXTRACTION WELL SAMPLING LOCATION
- 845 GROUNDWATER ELEVATION CONTOUR (ft, msl)
- 878.15 JULY 2004 GROUNDWATER LEVEL ELEVATION (ft, msl)
- GROUNDWATER FLOW VELOCITY VECTOR
- BTP BELOW TOP OF PUMP



WRIGHT-PATTERSON  
AIR FORCE BASE,  
OHIO

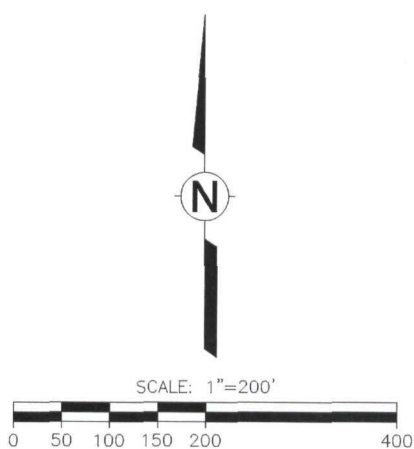
**Figure 2-15**  
**Landfill 10**  
**Groundwater Elevation and**  
**Velocity Vector Map:**  
**July 29, 2004**





**LEGEND:**

- MONITORING WELL LOCATION
- EXTRACTION WELL SAMPLING LOCATION
- 845 GROUNDWATER ELEVATION CONTOUR (ft, msl)
- 894.05 SEPTEMBER 2004 GROUNDWATER LEVEL ELEVATION (ft, msl)
- GROUNDWATER FLOW VELOCITY VECTOR



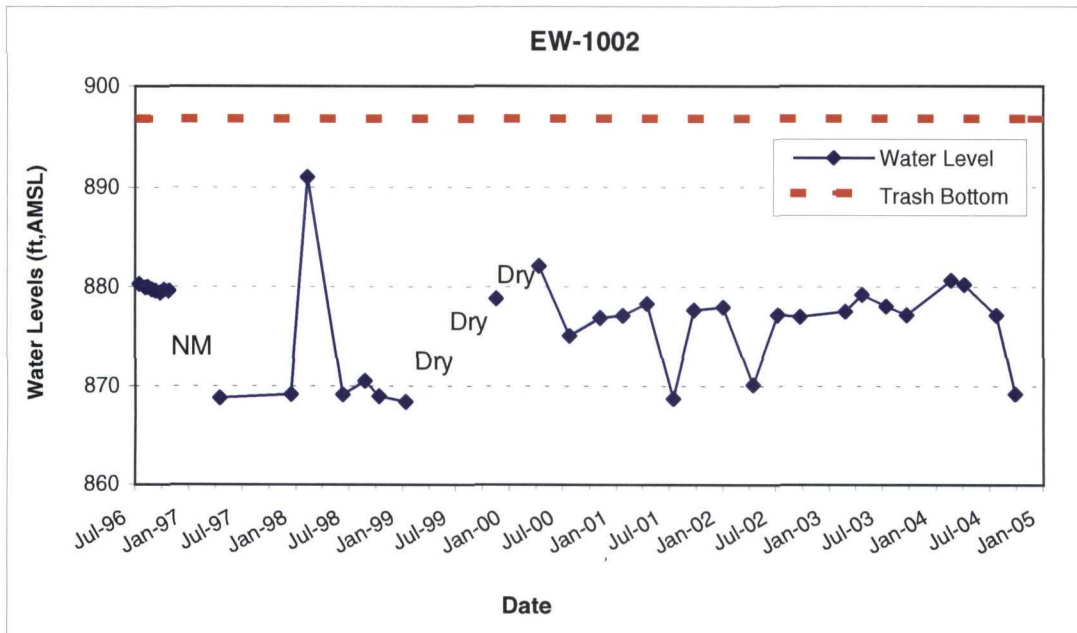
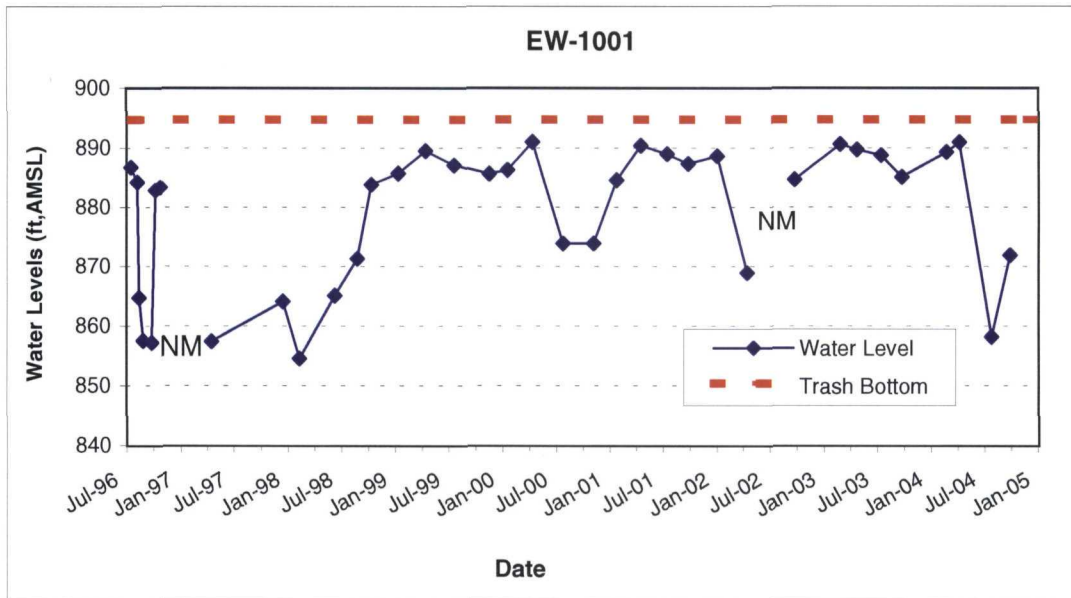
WRIGHT-PATTERSON  
AIR FORCE BASE,  
OHIO

**Figure 2-16**  
**Landfill 10**  
**Groundwater Elevation and**  
**Velocity Vector Map:**  
**September 29, 2004**

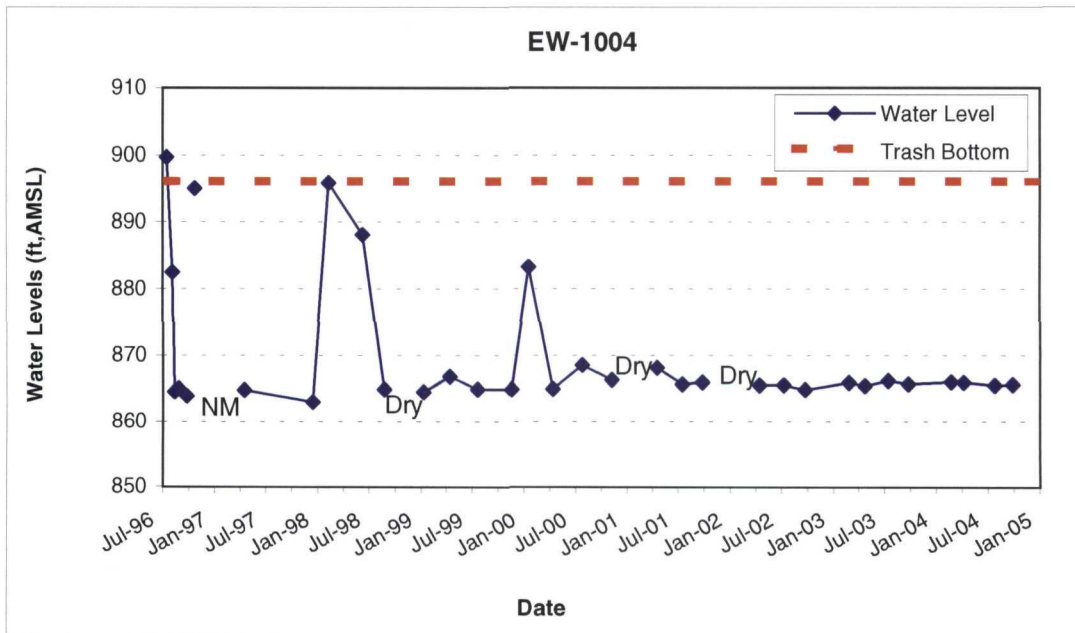
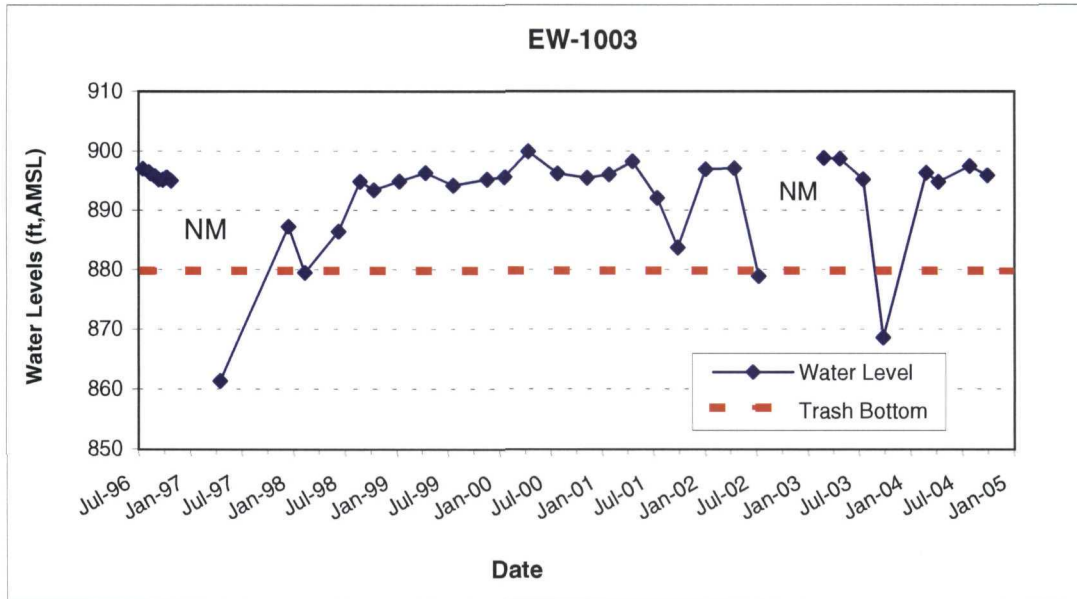
# LANDFILL 10 WATER LEVEL ELEVATION GRAPHS

Extraction Wells: EW-1001 and EW-1002

WPAFB - LTM Program



**LANDFILL 10 WATER LEVEL ELEVATION GRAPHS**  
**Extraction Wells: EW-1003 and EW-1004**  
WPAFB - LTM Program

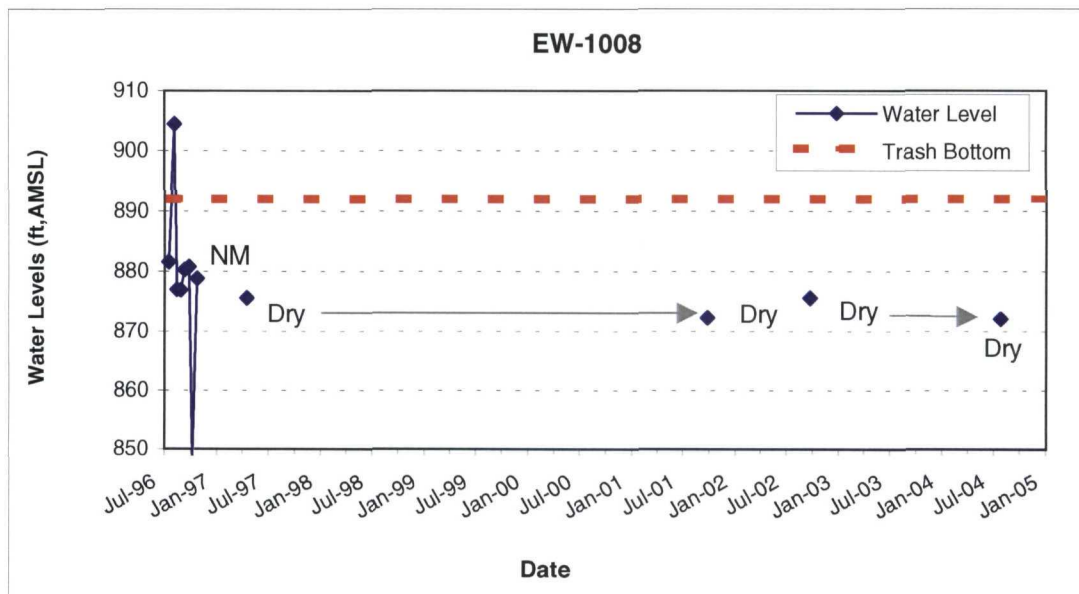
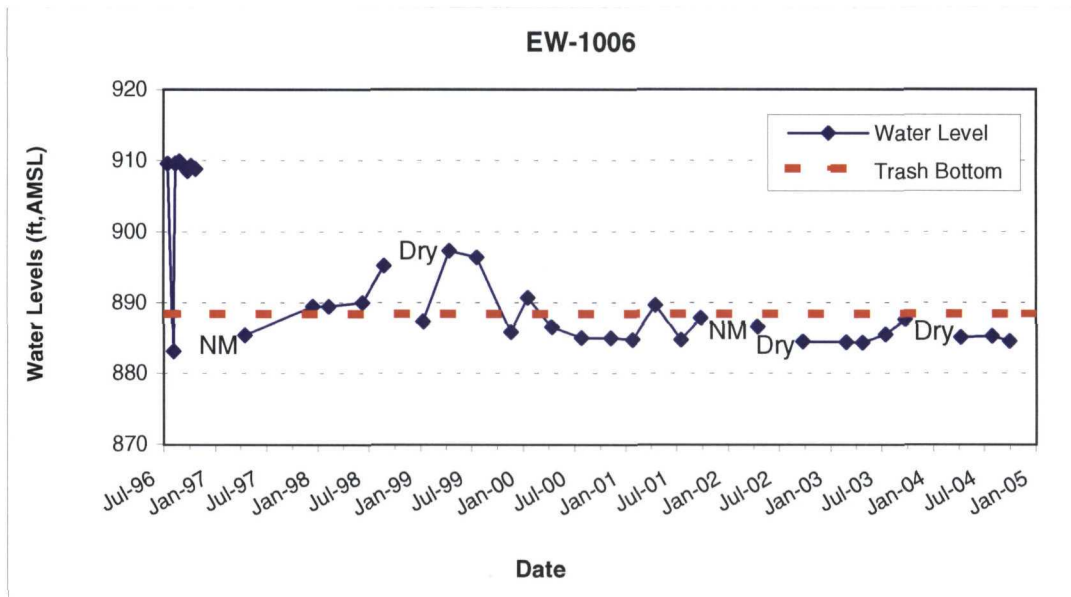




# LANDFILL 10 WATER LEVEL ELEVATION GRAPHS

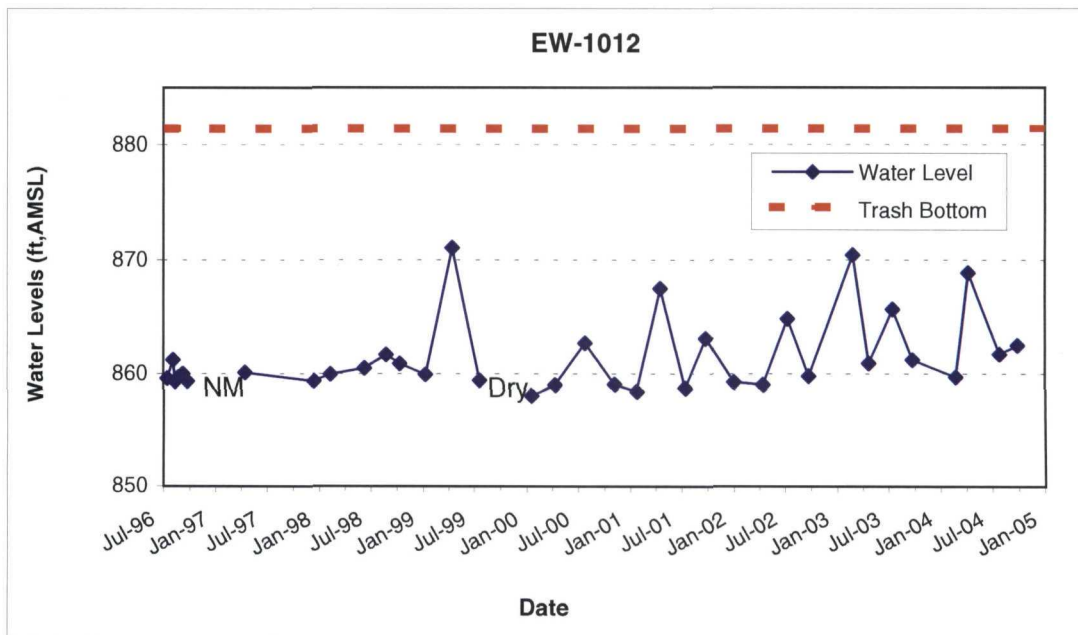
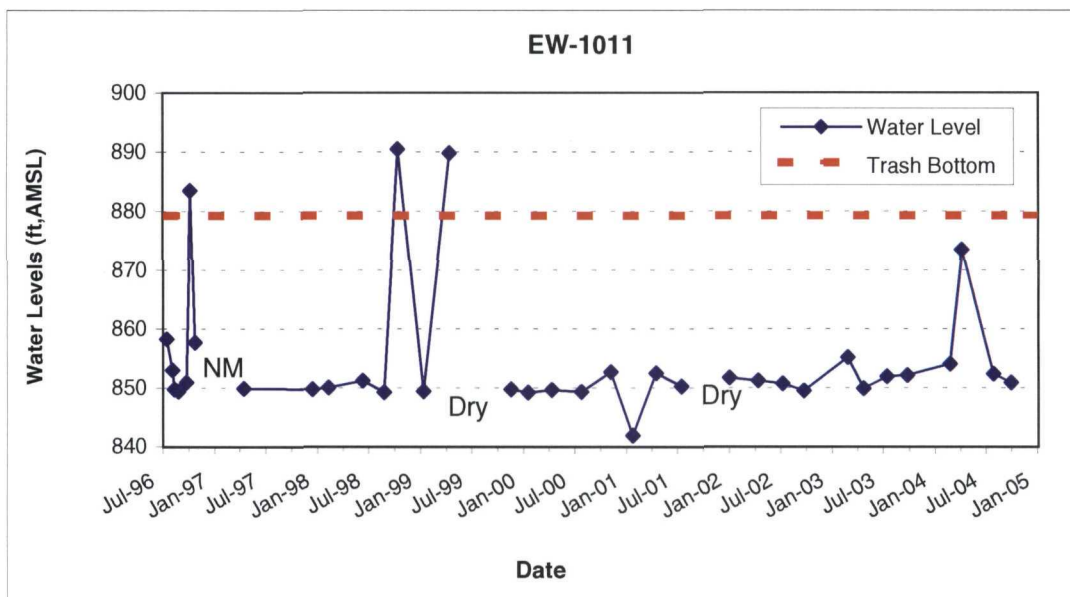
Extraction Wells: EW-1006 and EW-1008

WPAFB - LTM Program

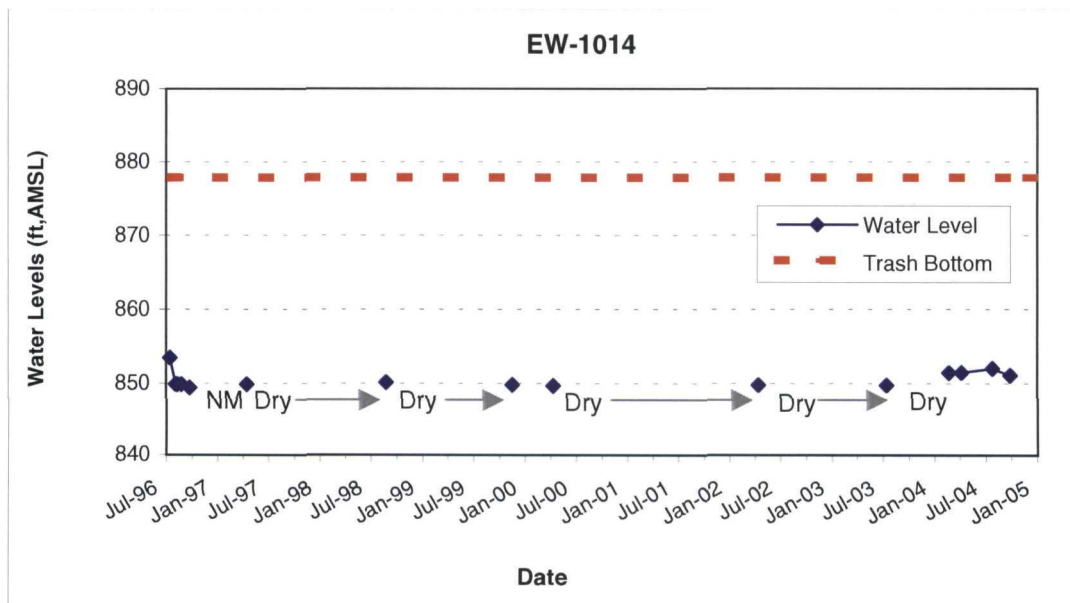
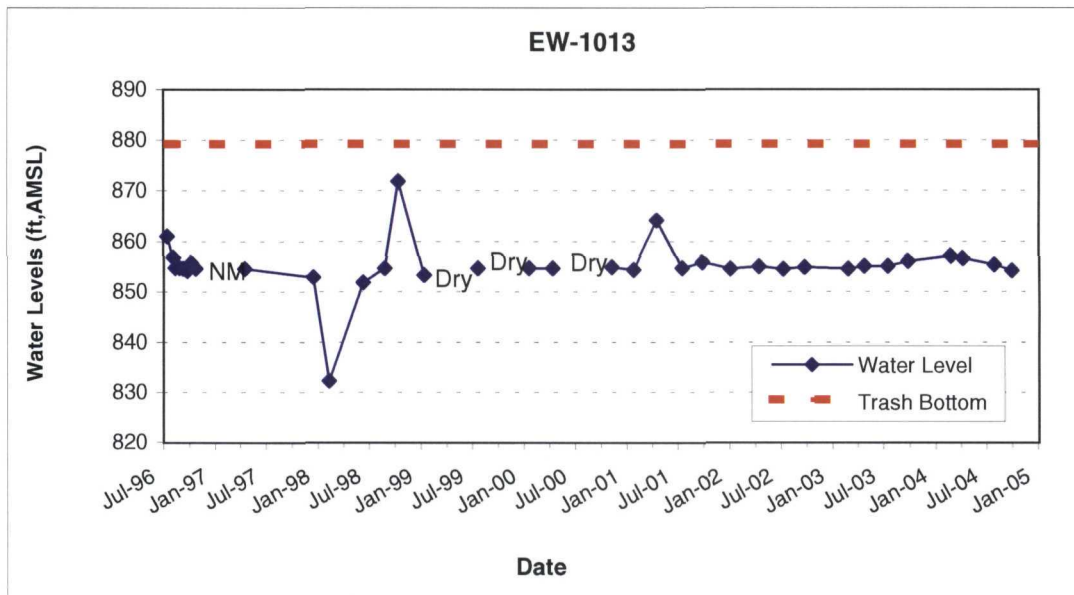




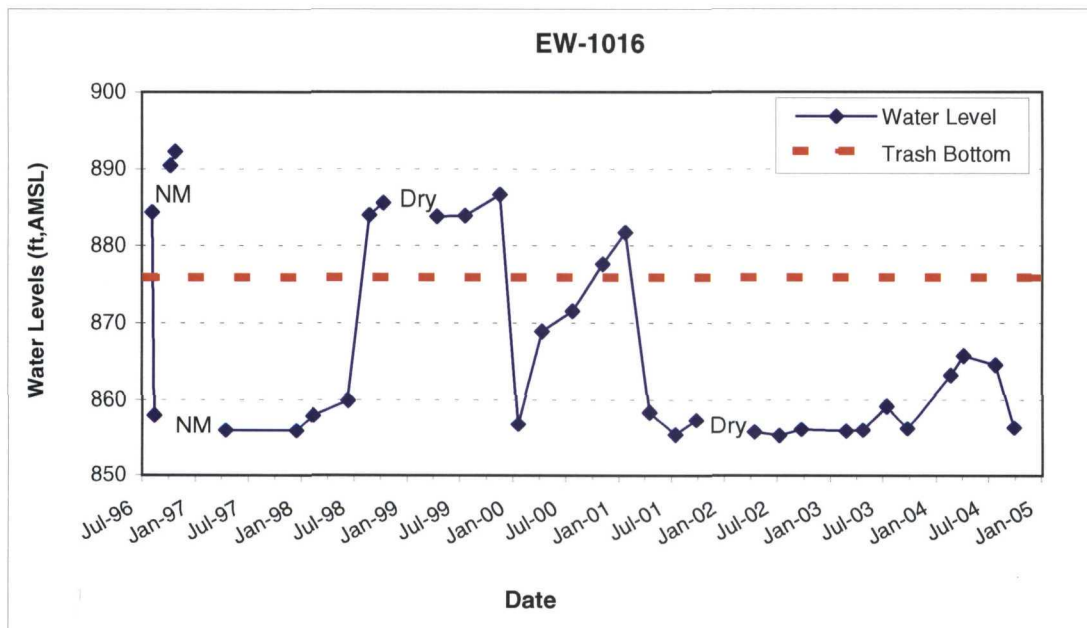
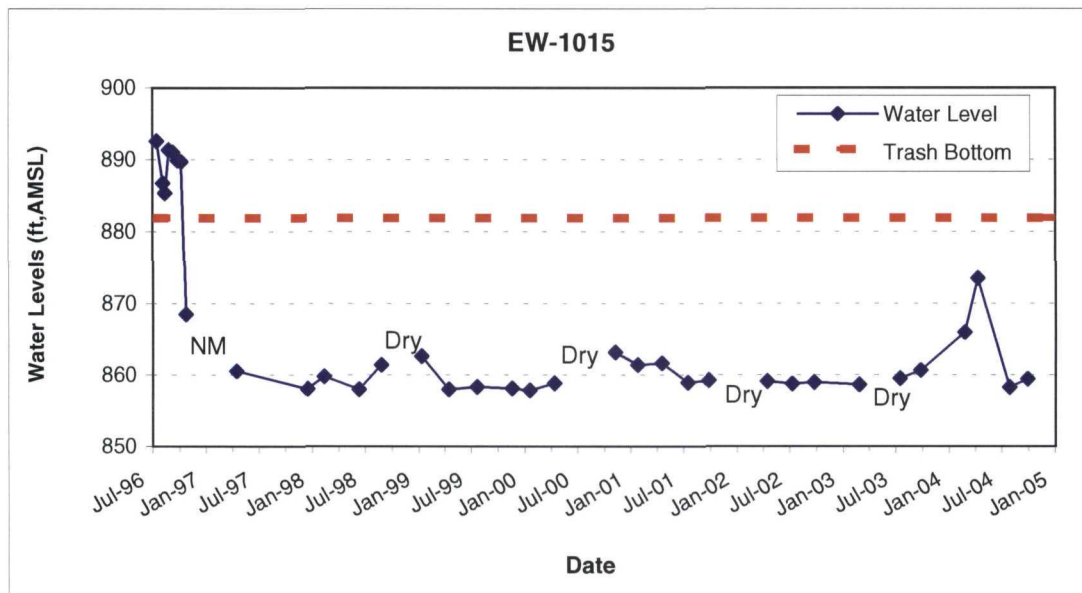
**LANDFILL 10 WATER LEVEL ELEVATION GRAPHS**  
**Extraction Wells: EW-1011 and EW-1012**  
WPAFB - LTM Program



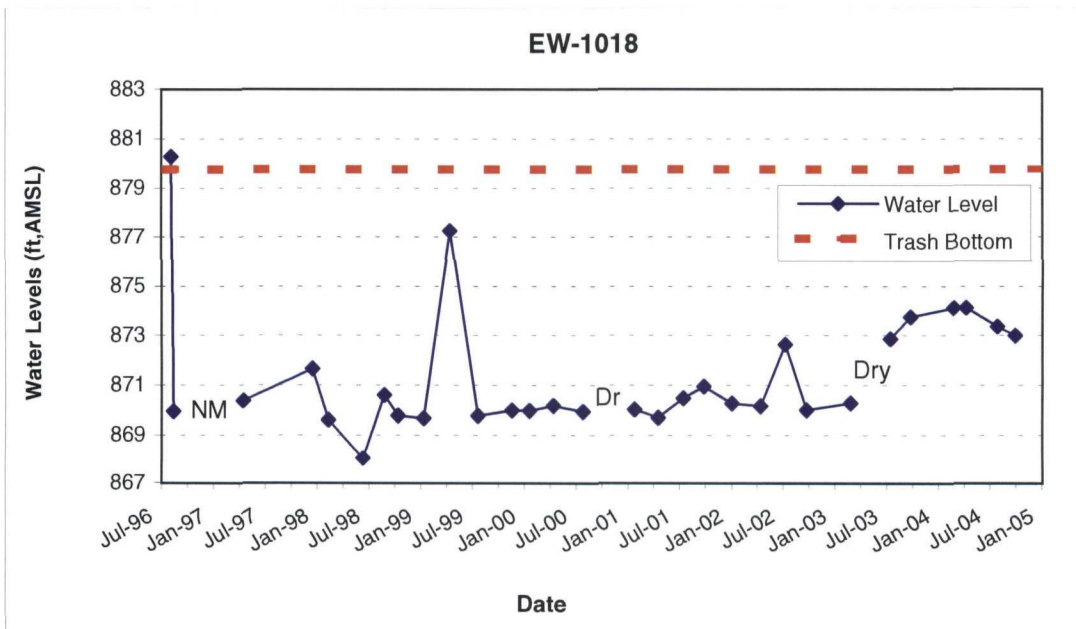
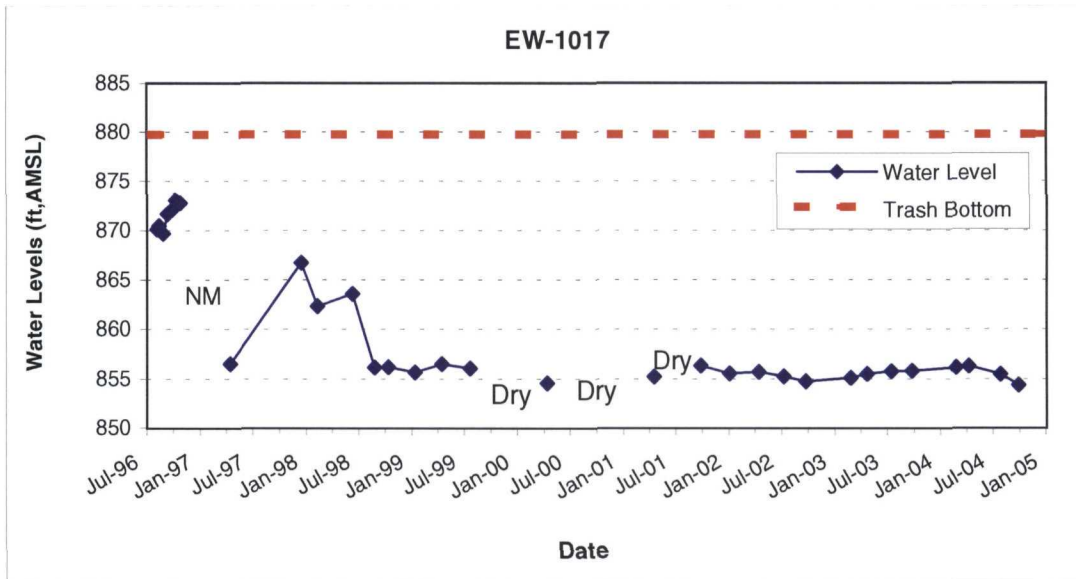
**LANDFILL 10 WATER LEVEL ELEVATION GRAPHS**  
**Extraction Wells: EW-1013 and EW-1014**  
WPAFB - LTM Program



**LANDFILL 10 WATER LEVEL ELEVATION GRAPHS**  
**Extraction Wells: EW-1015 and EW-1016**  
WPAFB - LTM Program

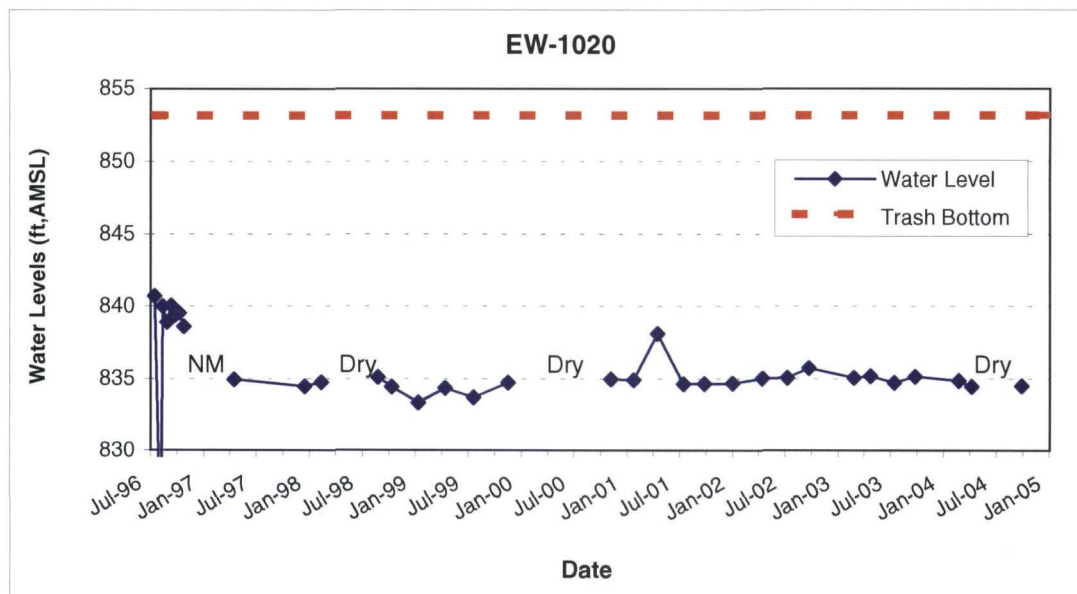
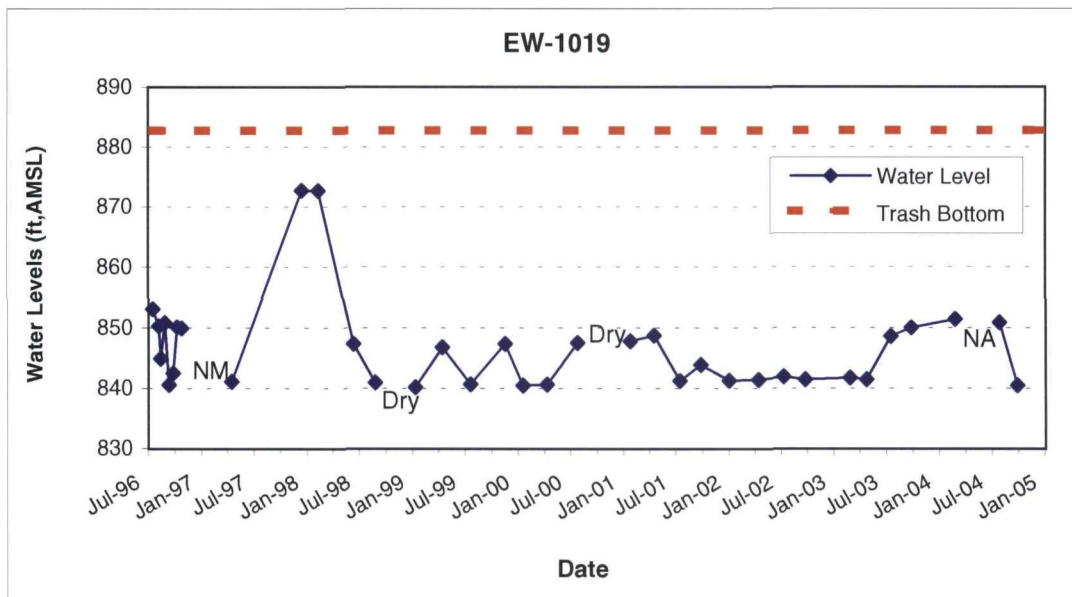


**LANDFILL 10 WATER LEVEL ELEVATION GRAPHS**  
**Extraction Wells: EW-1017 and EW-1018**  
WPAFB - LTM Program

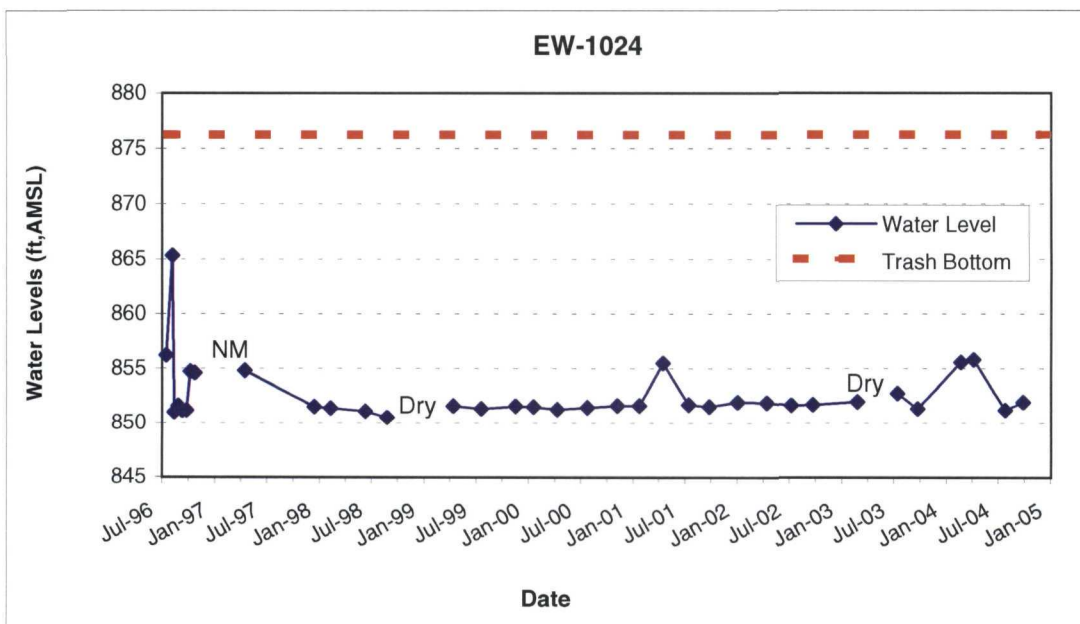
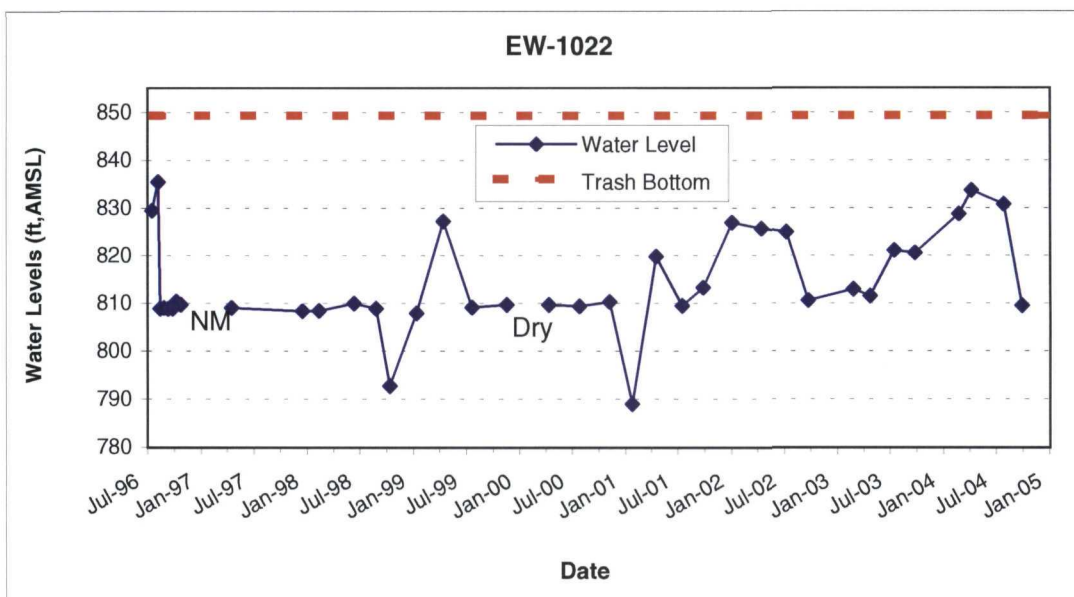


**FIGURE 2-23**

**LANDFILL 10 WATER LEVEL ELEVATION GRAPHS**  
**Extraction Wells: EW-1019 and EW-1020**  
WPAFB - LTM Program

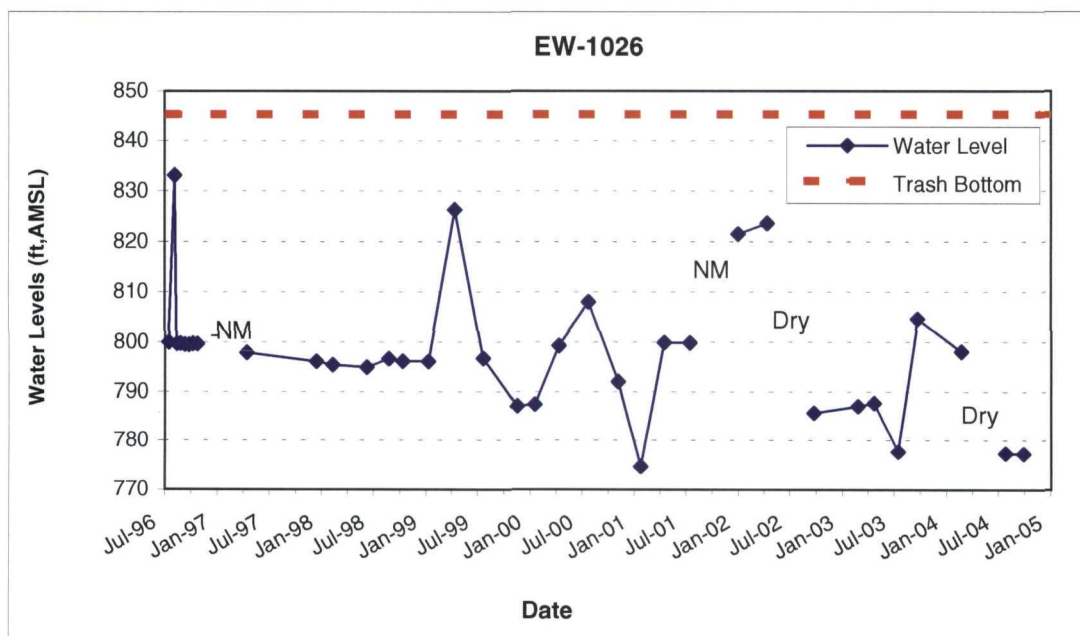
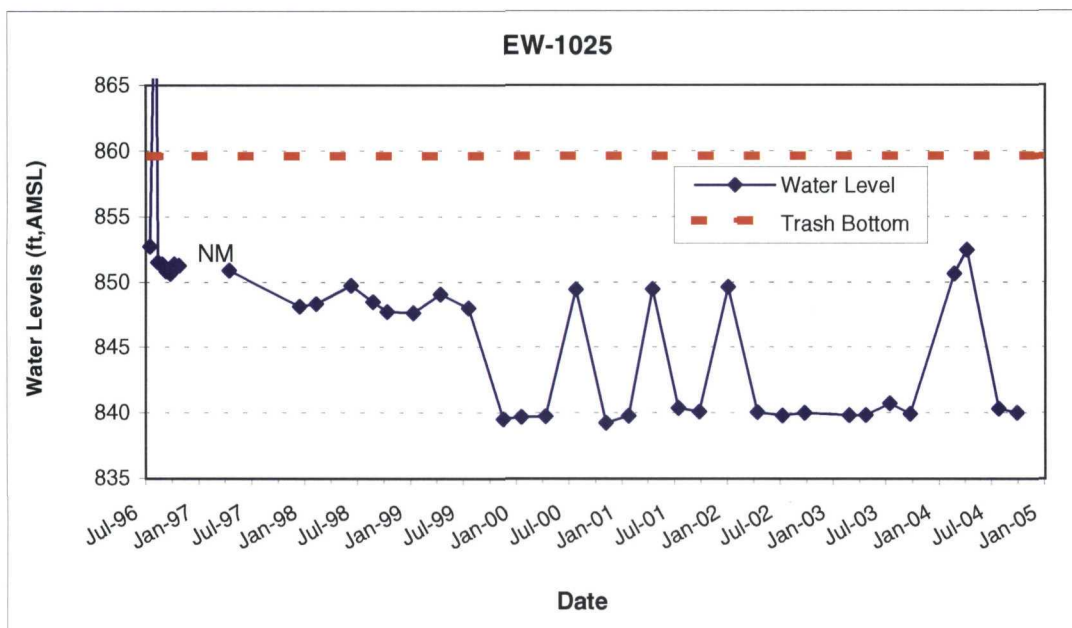


**LANDFILL 10 WATER LEVEL ELEVATION GRAPHS**  
**Extraction Wells: EW-1022 and EW-1024**  
WPAFB - LTM Program





**LANDFILL 10 WATER LEVEL ELEVATION GRAPHS**  
**Extraction Wells: EW-1025 and EW-1026**  
WPAFB - LTM Program



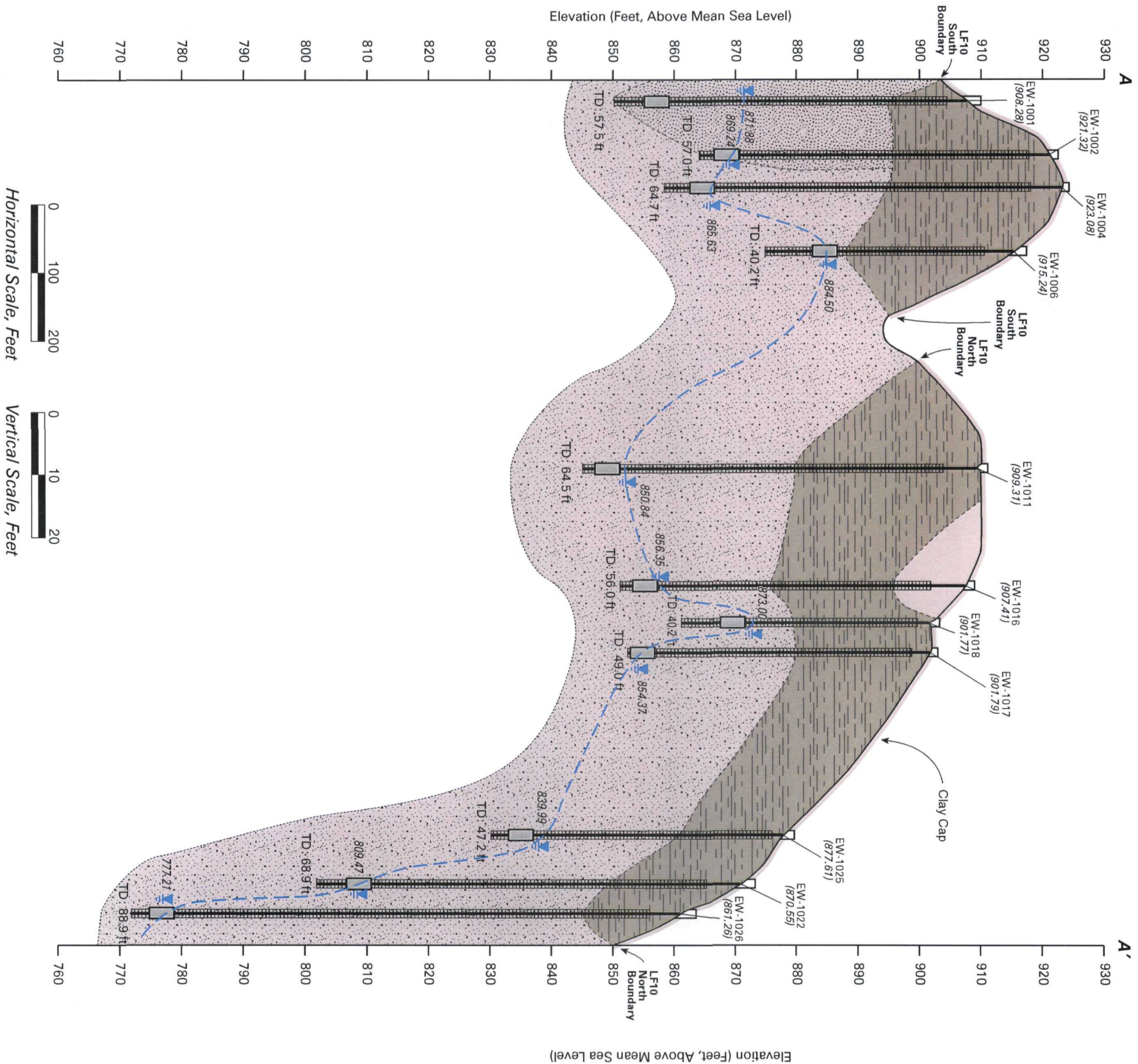
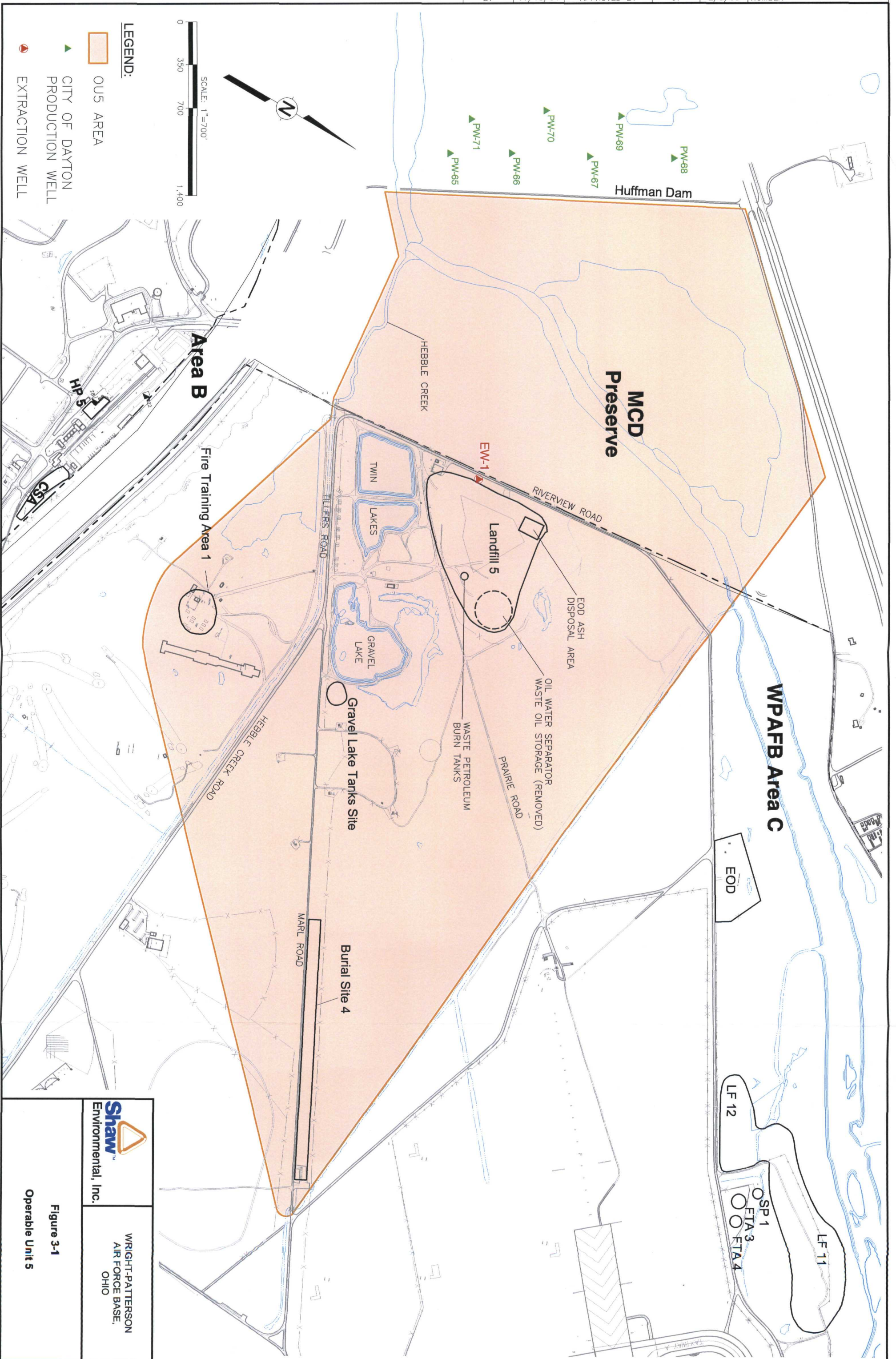


Figure 2-27.  
Landfill 10 Geologic Cross-Section and  
Potentiometric Surface: September 29, 2004.





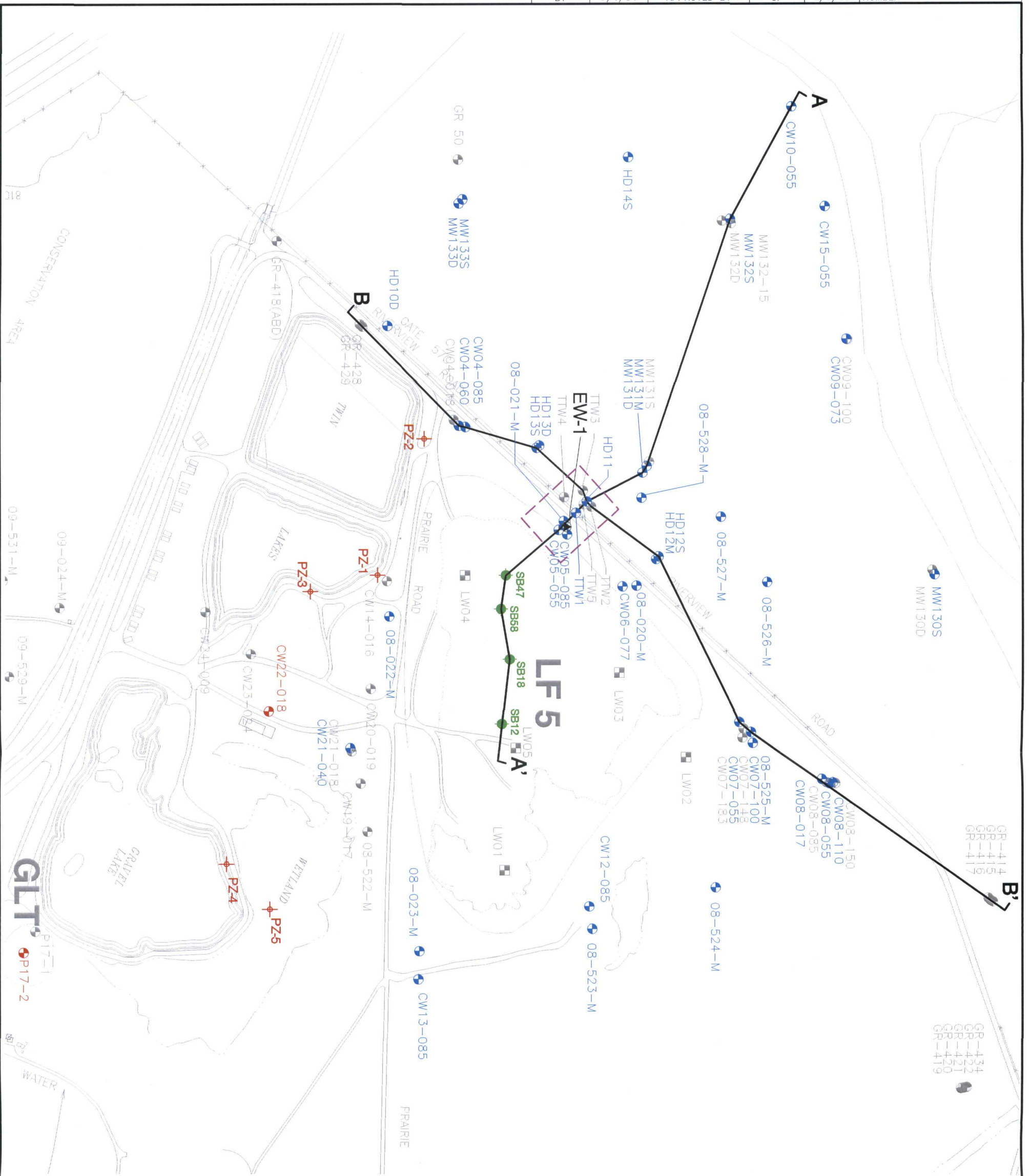
**Shaw**  
Environmental, Inc.

WRIGHT-PATTERSON  
AIR FORCE BASE,  
OHIO

Figure 3-1

Operable Unit 5



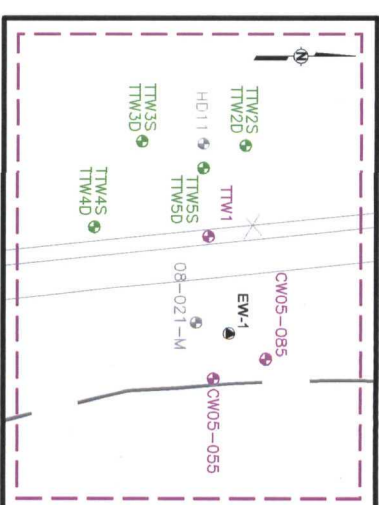


# LEGEND:

- MONITORING WELL FOR LF5 HYDRAULIC CONTAINMENT MONITORING
- SOIL BORING LOCATION
- EXTRACTION WELL
- PIEZOMETER LOCATIONS ADDED DURING THE AQUIFER RECOVERY TEST IN THE SUMMER OF 2003
- MONITORING WELL LOCATIONS ADDED DURING THE AQUIFER RECOVERY TEST IN THE SUMMER OF 2003
- IRP SITES (LOCATIONS APPROXIMATE)

# A A'

GEOLOGIC CROSS SECTION LINE  
FOR CROSS-SECTIONS A-A' AND B-B'  
SEE FIGURES 7-8 AND 7-9



# AREA CLOSE-UP

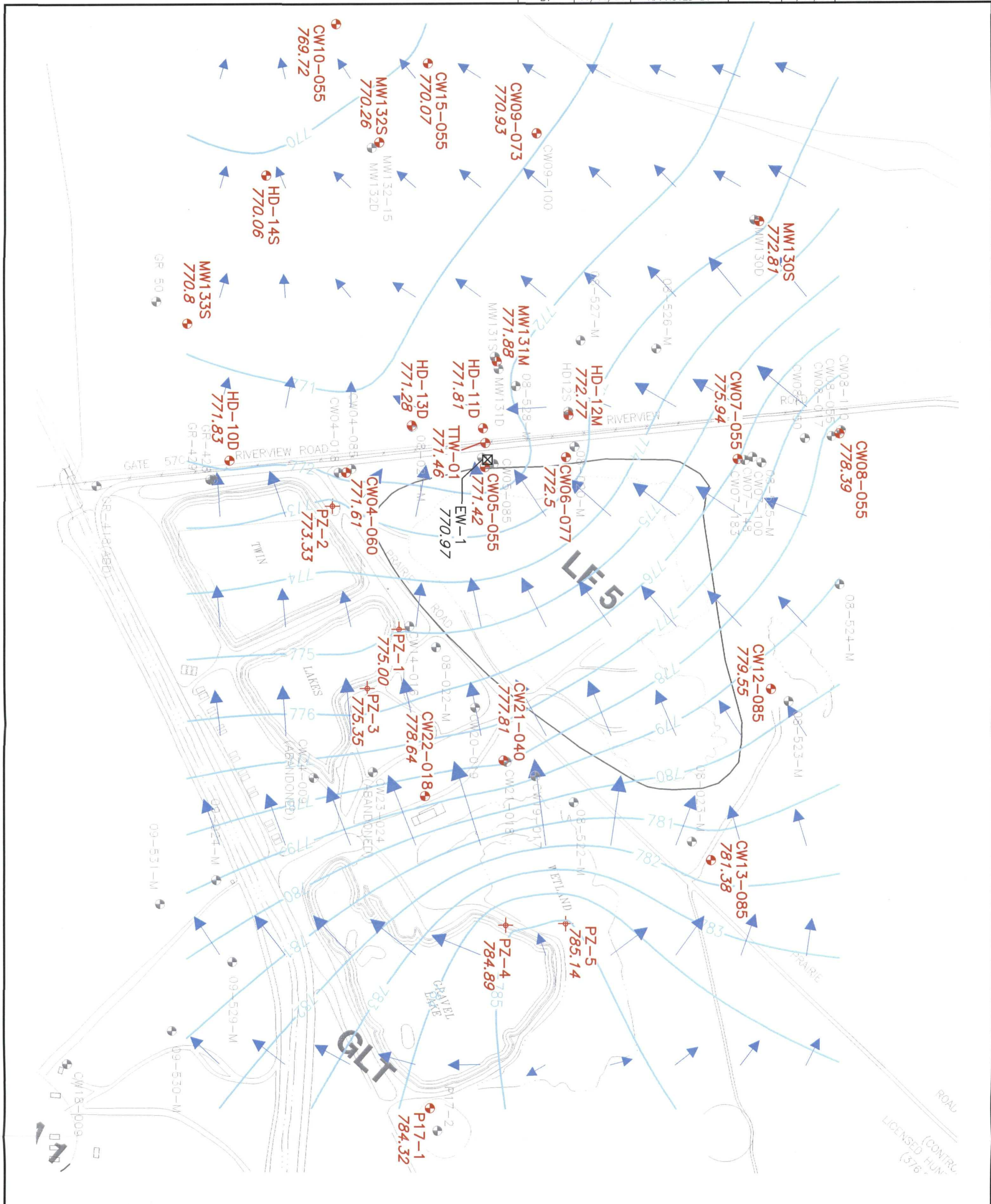


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Environmental, Inc.

WRIGHT-PATTERSON  
AIR FORCE BASE,  
OHIO

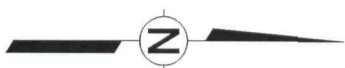
**Figure 3-2**  
OUS Water Level Monitoring  
Network and Geologic Cross  
Section Locations





**LEGEND:**

- MONITORING WELL FOR LFS HYDRAULIC CONTAINMENT MONITORING
- EXTRACTION WELL
- PIEZOMETER LOCATION
- GROUNDWATER ELEVATION CONTOUR (ft, msl)
- JUNE 2004 GROUNDWATER LEVEL ELEVATION (FT, MSL)
- GROUNDWATER FLOW VELOCITY VECTOR
- IRP SITES (LOCATIONS APPROXIMATE)

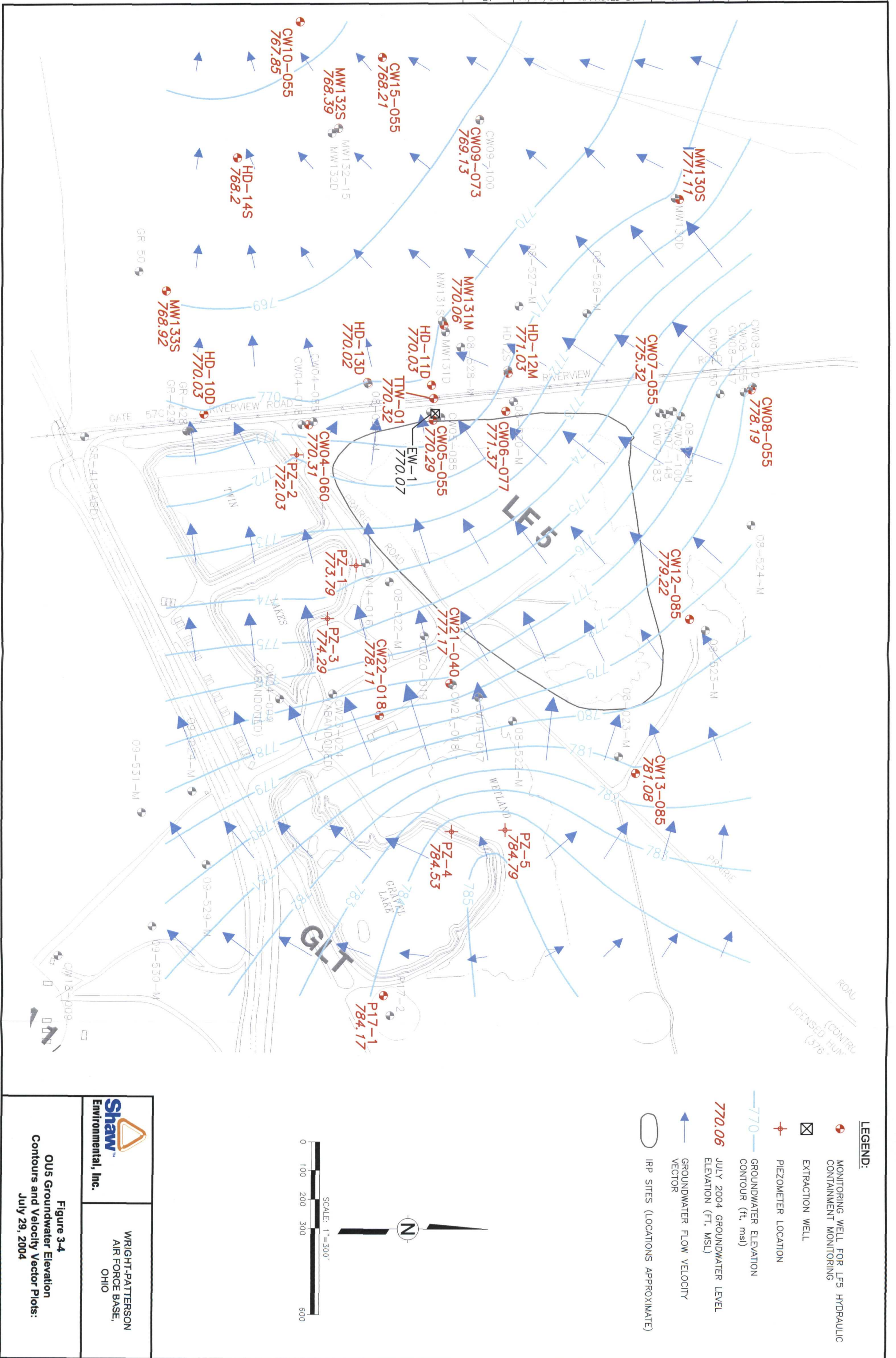


**Shaw**  
Environmental, Inc.

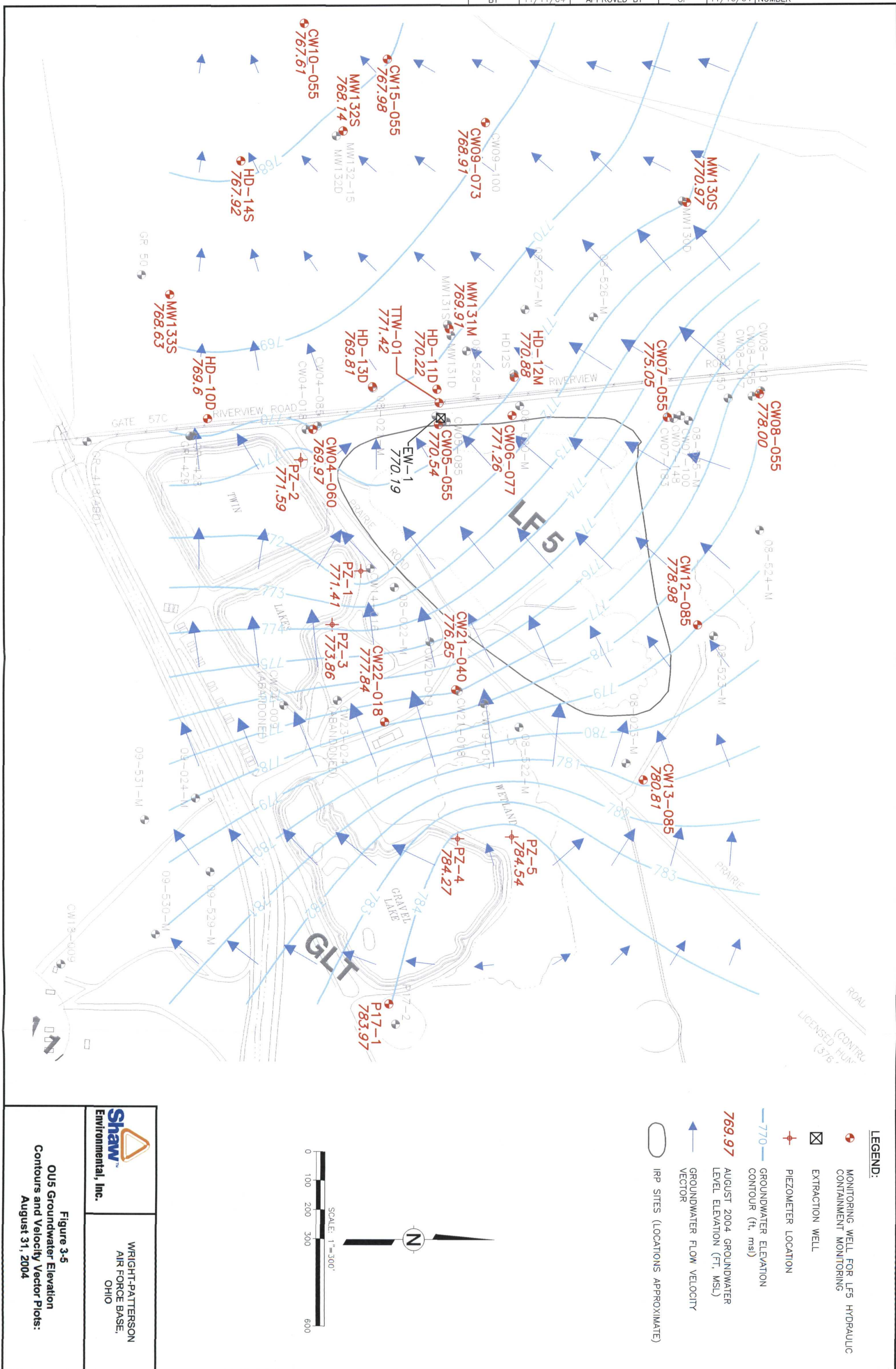
WRIGHT-PATTERSON  
AIR FORCE BASE,  
OHIO

**Figure 3-3**  
OUS Groundwater Elevation  
Contours and Velocity Vector Plots:  
June 29, 2004

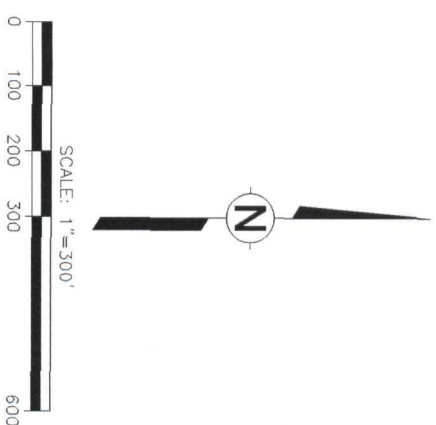
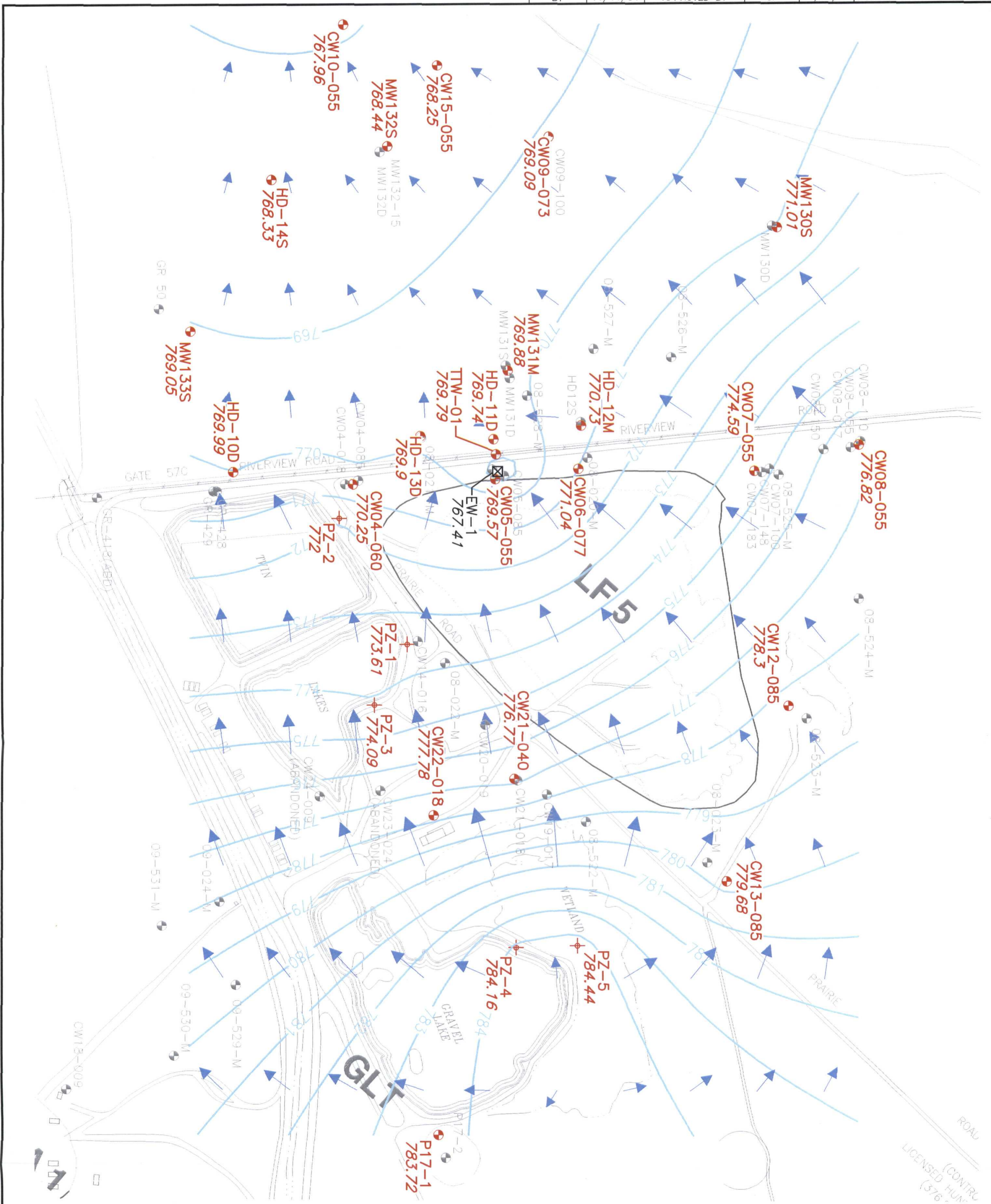










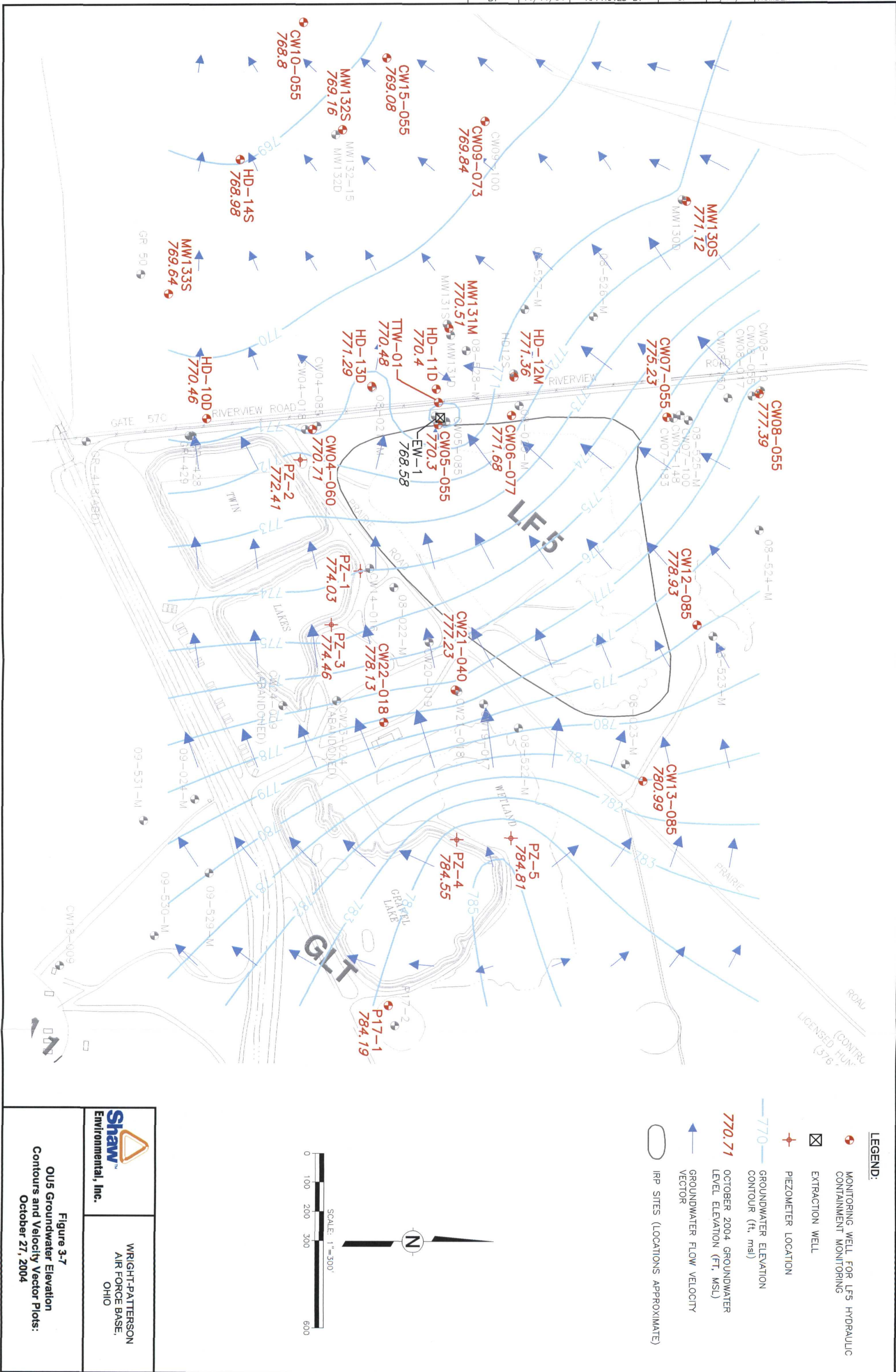


**Shaw**  
Environmental, Inc.

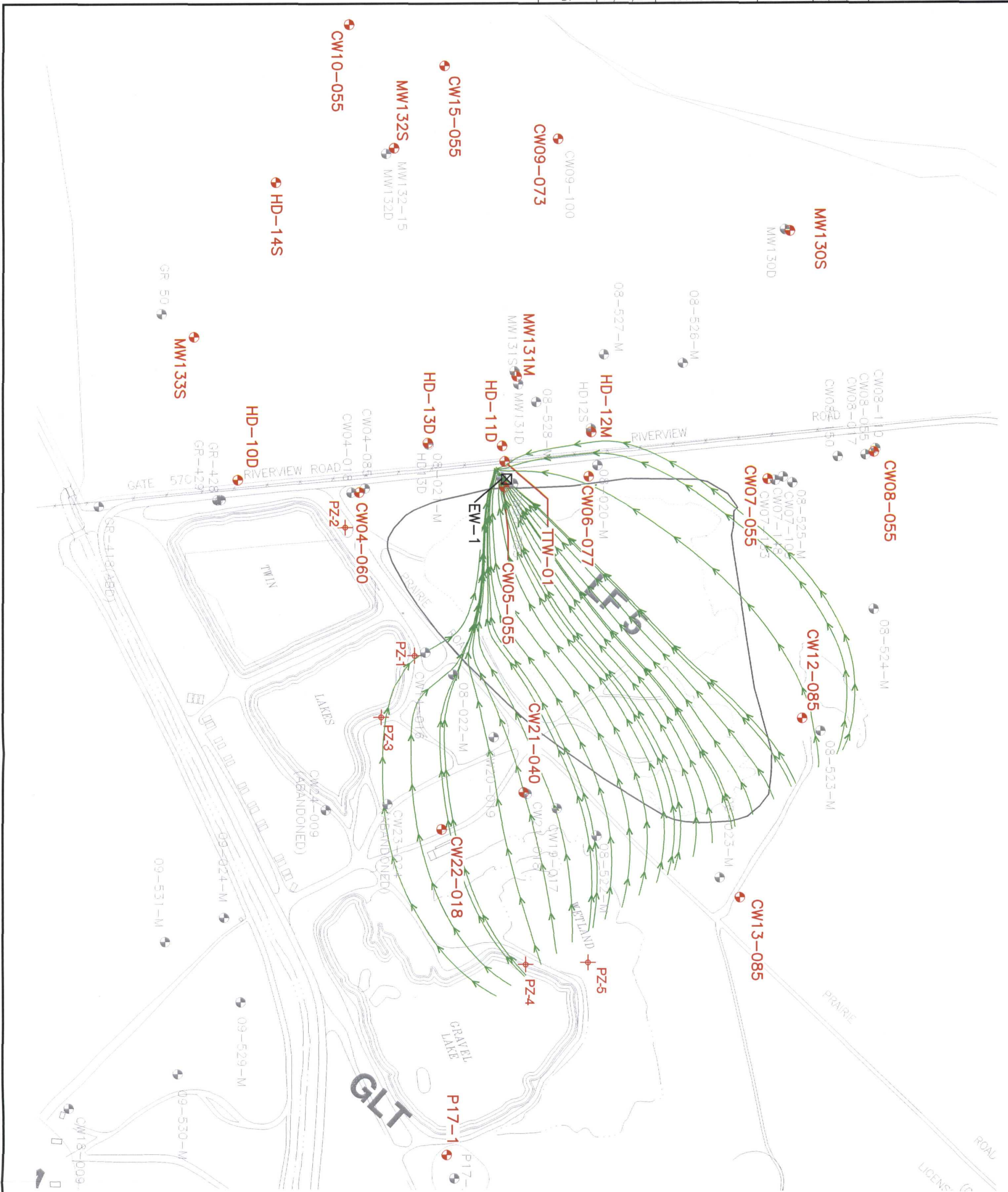
WRIGHT-PATTERSON  
AIR FORCE BASE,  
OHIO

**Figure 3-6**  
OU5 Groundwater Elevation  
Contours and Velocity Vector Plots:  
September 30, 2004

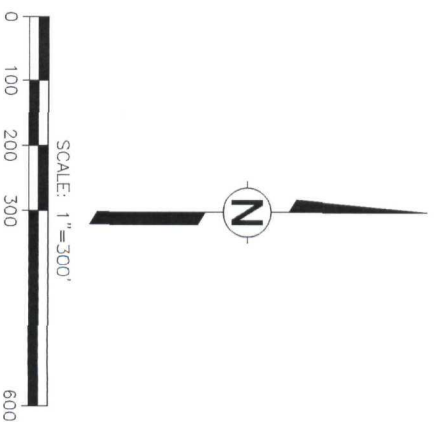








- LEGEND:**
- MONITORING WELL FOR LFS HYDRAULIC CONTAINMENT MONITORING
  - ⊠ EXTRACTION WELL
  - + PIEZOMETER LOCATION
  - PARTICLE TRACK WITH FLOW DIRECTION
  - IRP SITES (LOCATIONS APPROXIMATE)



**Shaw**  
Environmental, Inc.

WRIGHT-PATTERSON  
AIR FORCE BASE,  
OHIO

**Figure 3-8**  
OUS Particle Track Plot:  
June 29, 2004





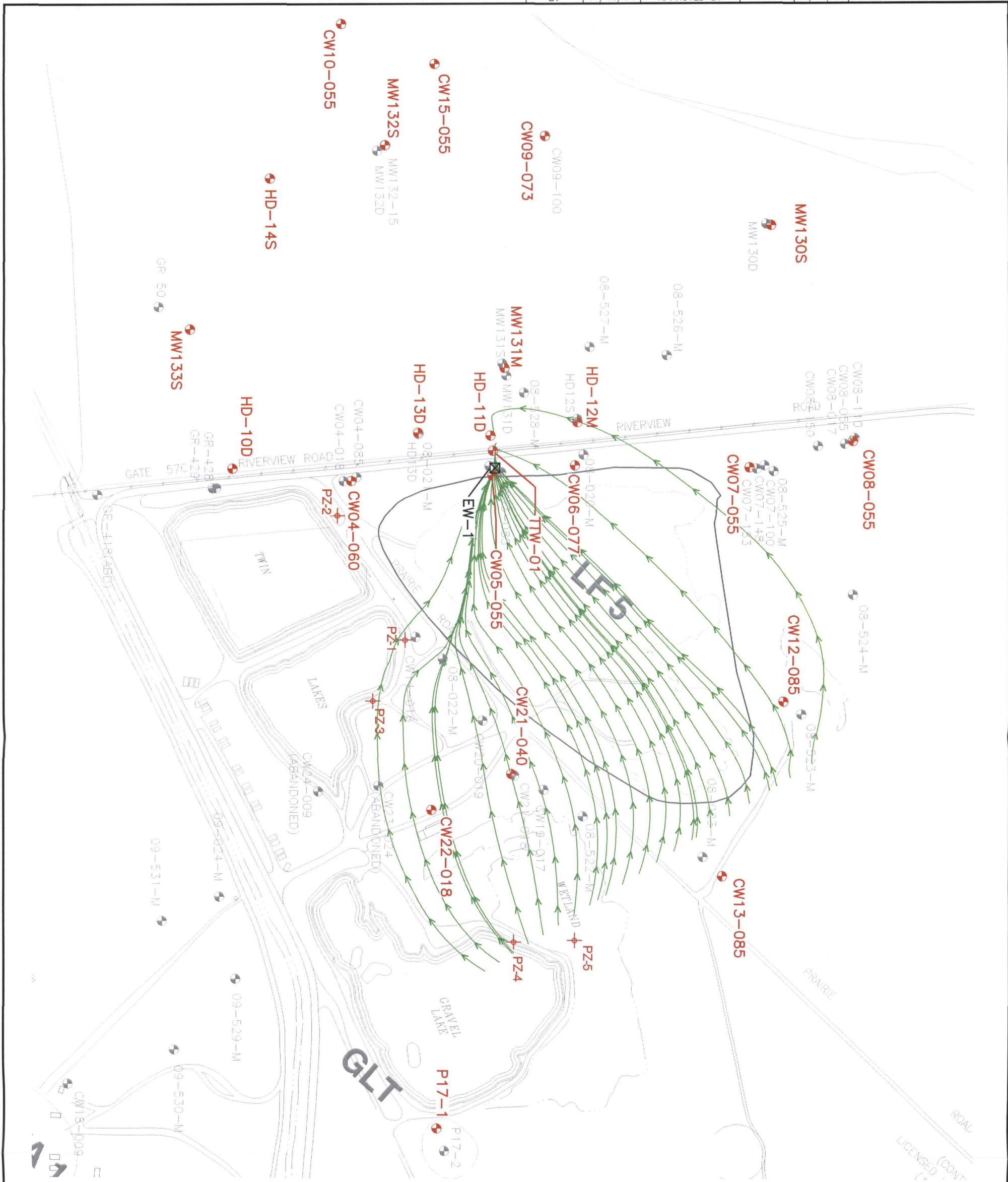




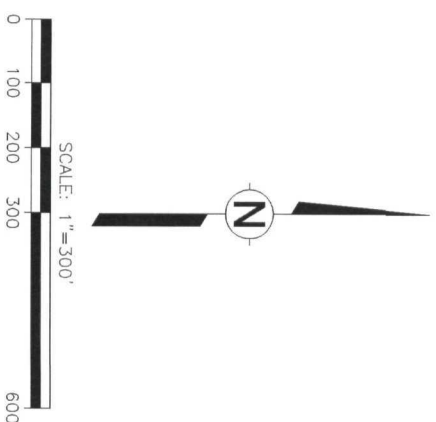








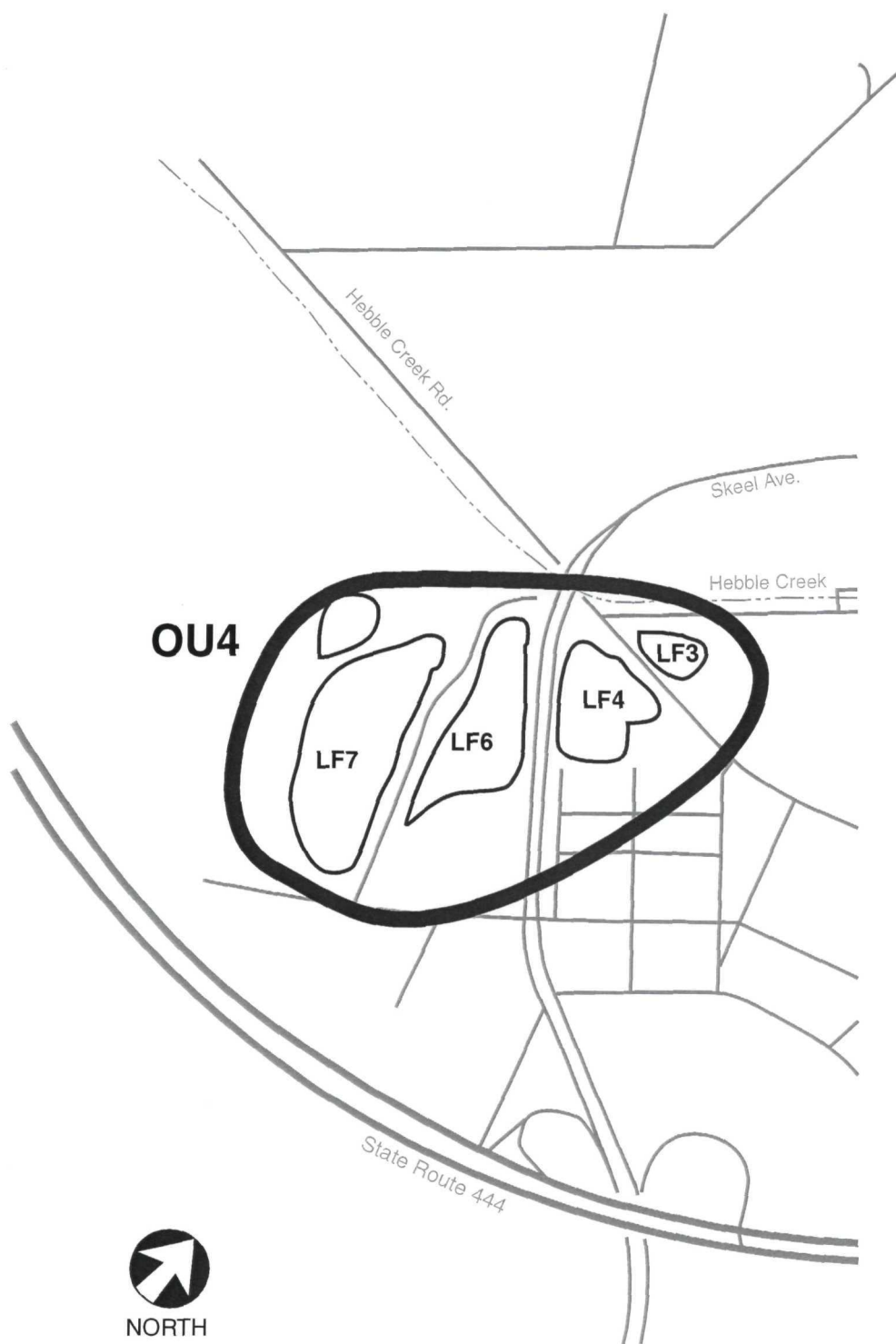
- LEGEND:**
- MONITORING WELL FOR LFS HYDRAULIC CONTAINMENT MONITORING
  - ⊠ EXTRACTION WELL
  - ⊕ PIEZOMETER LOCATION
  - PARTICLE TRACK WITH FLOW DIRECTION
  - IRP SITES (LOCATIONS APPROXIMATE)



**Shaw**  
Environmental, Inc.

WRIGHT-PATTERSON  
AIR FORCE BASE,  
OHIO

Figure 3-12  
OUS Particle Track Plot:  
October 27, 2004

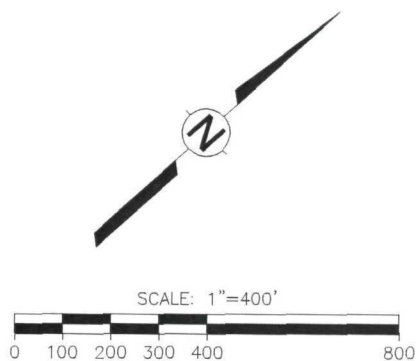
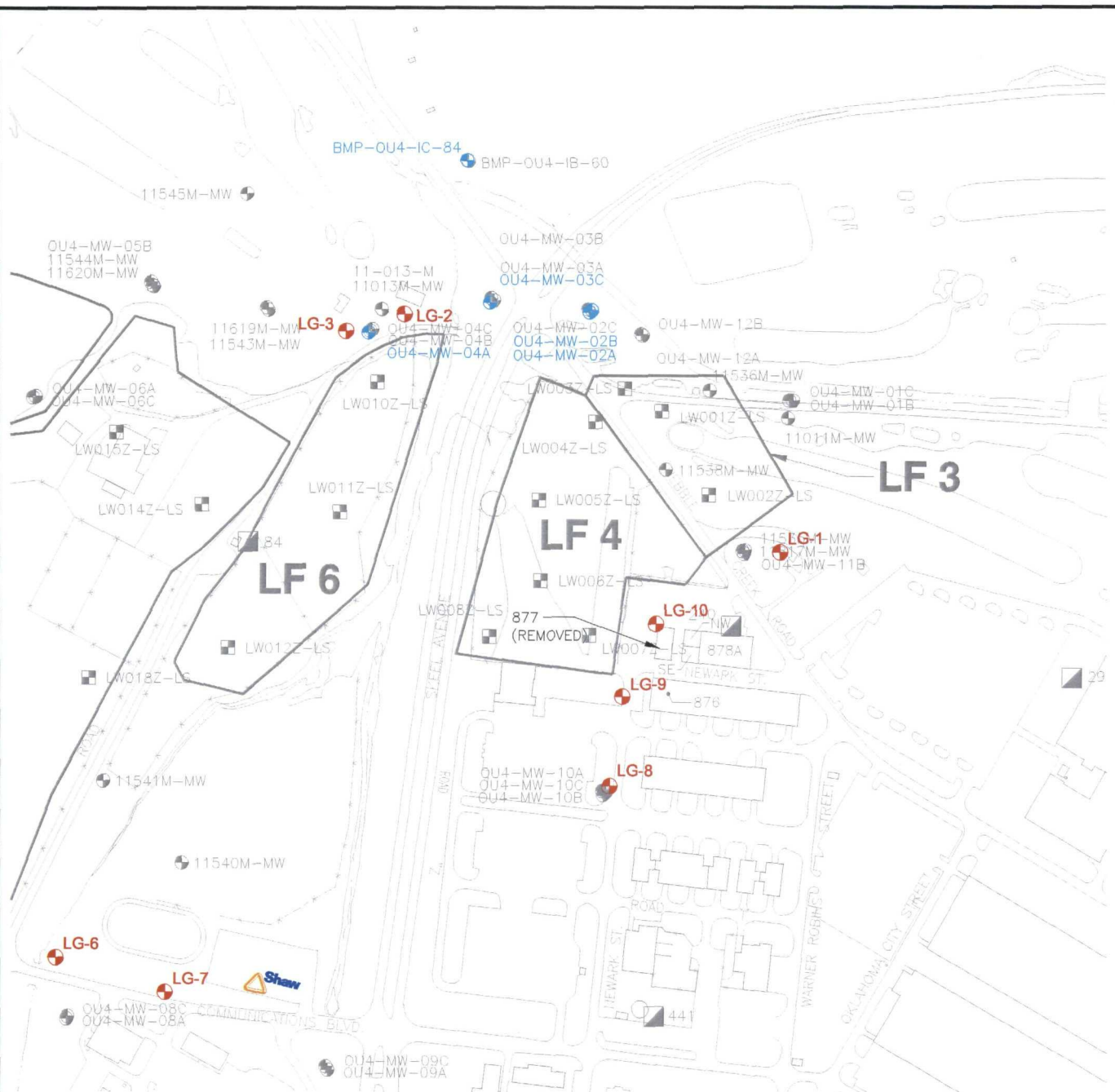


DRAWING BY	JIS, III	CHECKED BY	MWC	1/26/01	DRAWING NO.
	2/17/99	APPROVED BY	JRT	1/26/01	S-777097.0108-2/99-1W

Figure 4-1.  
OU 4 - Landfills 3, 4, 6 and 7.



DRAWN BY: MSN 2/5/04  
 CHECKED BY: MC 2/9/04  
 APPROVED BY: GP 2/9/04  
 DRAWING NUMBER: 2004 02-61.DWG



# **LEGEND**

- LG-1 LANDFILL GAS MONITORING WELL LOCATIONS
- IRP SITES (LOCATIONS APPROXIMATE)



WRIGHT-PATTERSON  
 AIR FORCE BASE  
 DAYTON, OHIO

**Figure 4-2  
 LANDFILL GAS  
 MONITORING WELLS: OU4**



















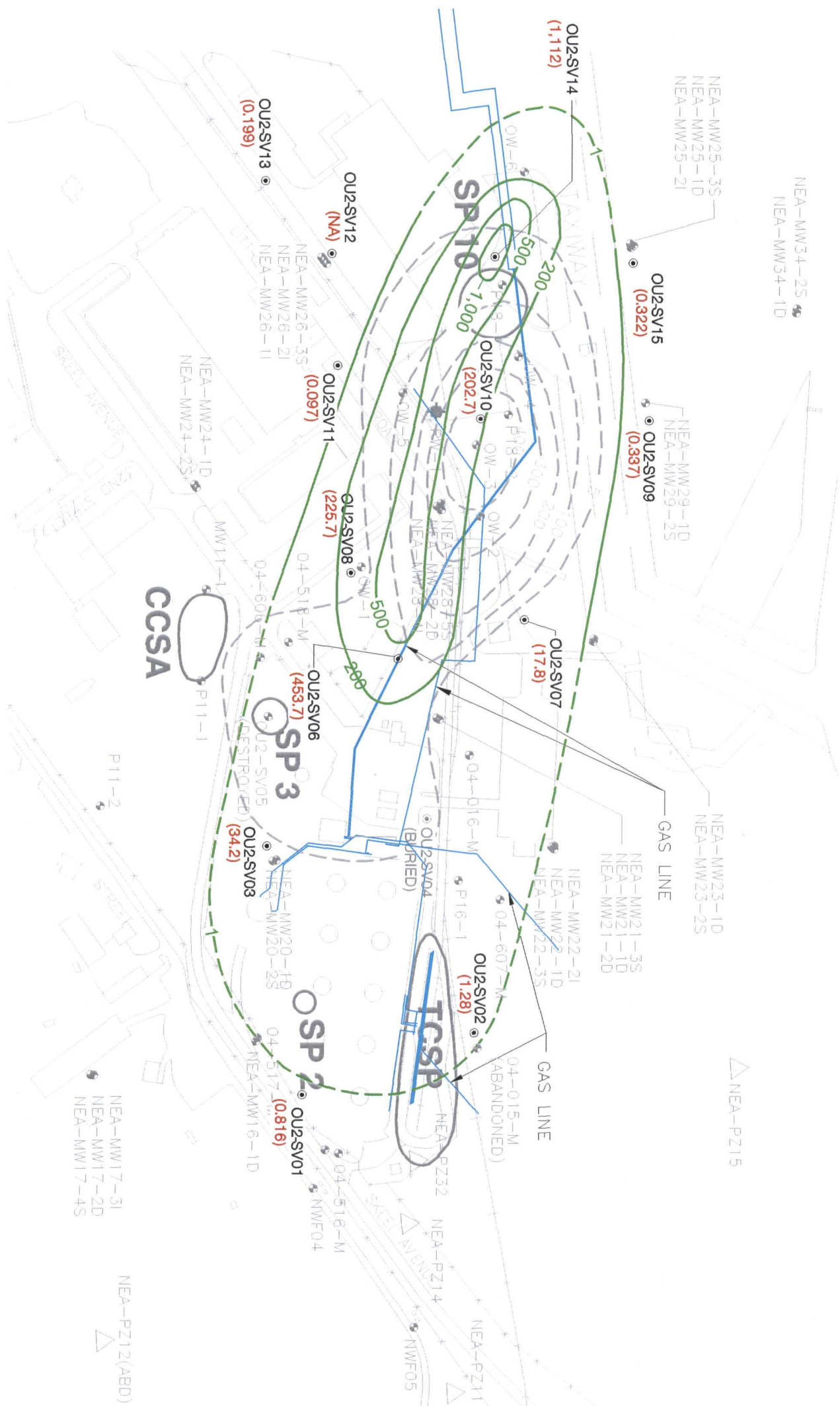




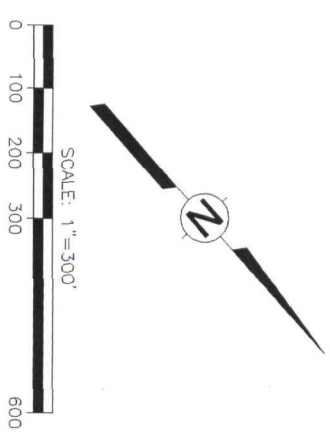





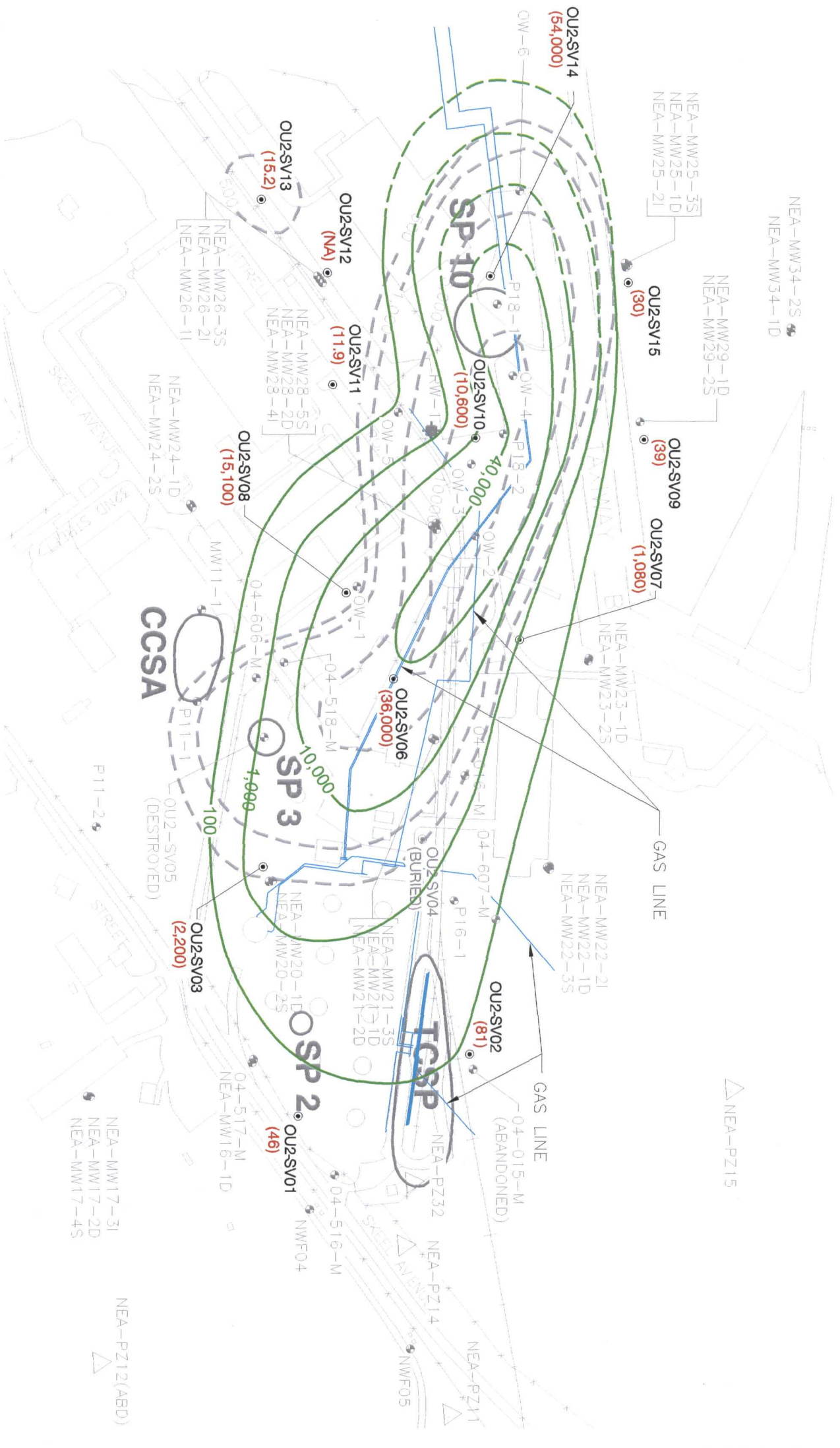




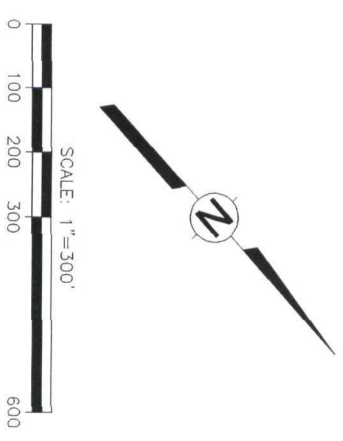
- LEGEND:**
- GROUNDWATER MONITORING WELLS
  - SOIL VAPOR MONITORING POINTS
  - (1.28) ROUND 15 BTX SOIL VAPOR CONCENTRATIONS, (ppb).
  - 1 --- ROUND 15 BTX SOIL VAPOR ISOPLETH, (ppb). (DASHED WHERE INFERRED)
  - 200 --- BASELINE BTX ISOPLETH, (ppb).
  - GAS LINES
  - (NA) NOT AVAILABLE



 Shaw Environmental, Inc.	WRIGHT-PATTERSON AIR FORCE BASE, OHIO
	<b>Figure 5-8</b> Round 15 OU2 ROD Soil Gas Monitoring Results: BTX (Total) October 2004



- LEGEND:**
- GROUNDWATER MONITORING WELLS
  - SOIL VAPOR MONITORING POINTS
  - (1,080) ROUND 15 TOTAL VOLATILE HYDROCARBONS (TVH) SOIL VAPOR CONCENTRATIONS, (ppm).
  - 10--- ROUND 15 TVH SOIL VAPOR ISOPLETH, (ppm).
  - 5000--- BASELINE TVH ISOPLETH, (ppm).
  - GAS LINES
  - (NA) NOT AVAILABLE



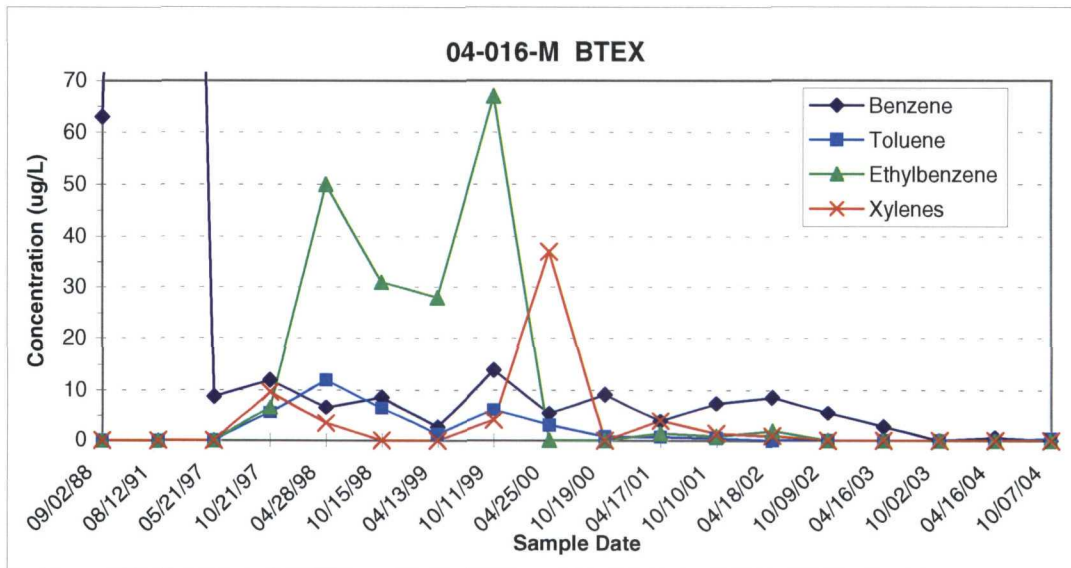
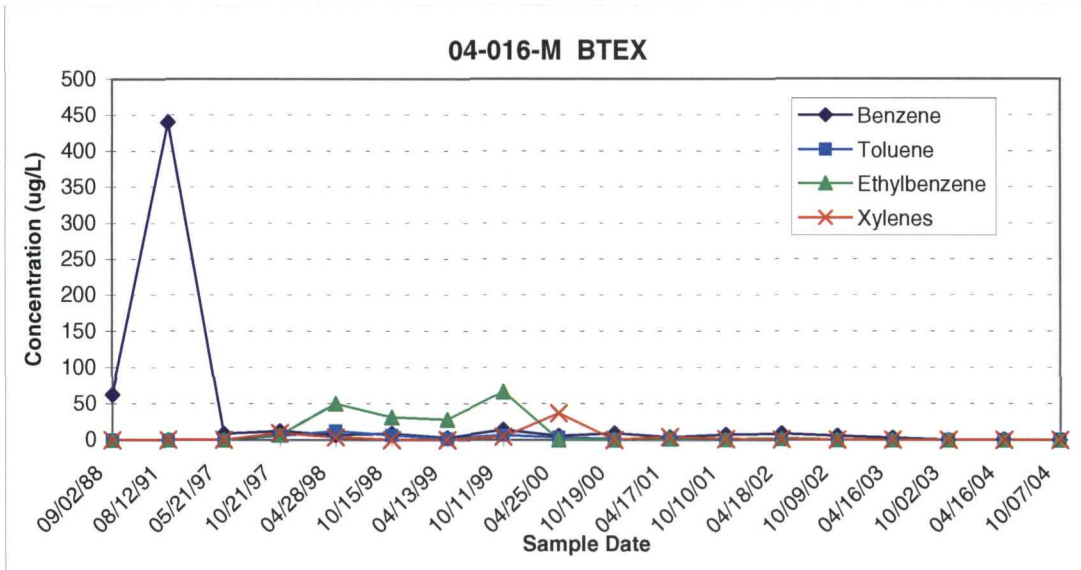
	WRIGHT-PATTERSON AIR FORCE BASE, OHIO
	<p><b>Figure 5-9</b></p> <p><b>Round 15 OU2 ROD Soil Gas</b></p> <p><b>Monitoring Results:</b></p> <p><b>Total Volatile Hydrocarbons</b></p> <p><b>October 2004</b></p>



# OU2 HYDROCARBON CONCENTRATION GRAPHS

WELL: 04-016-M

WPAFB-BMP

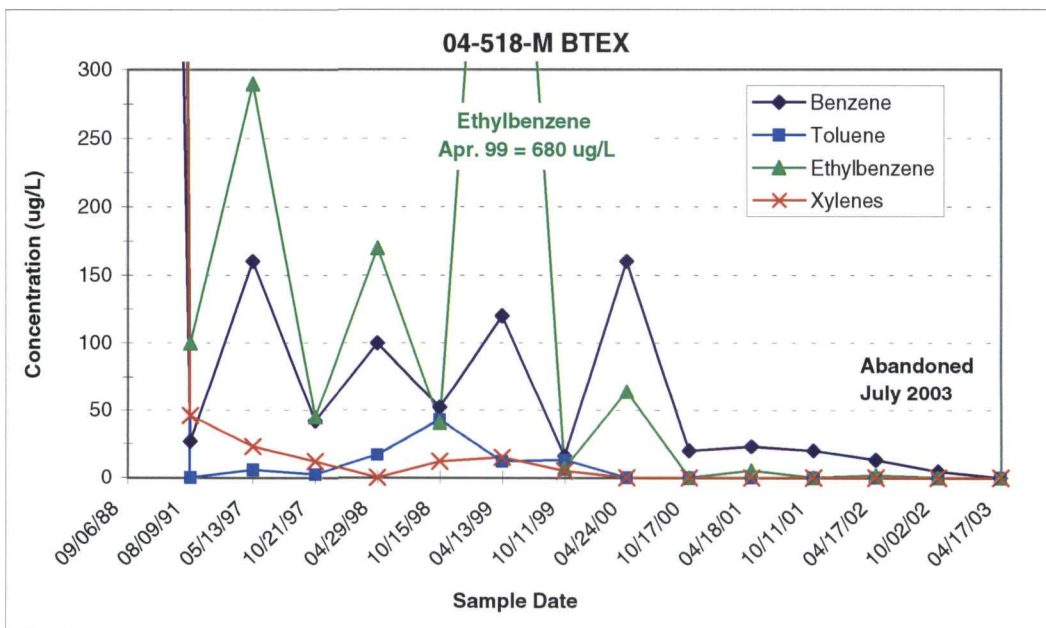
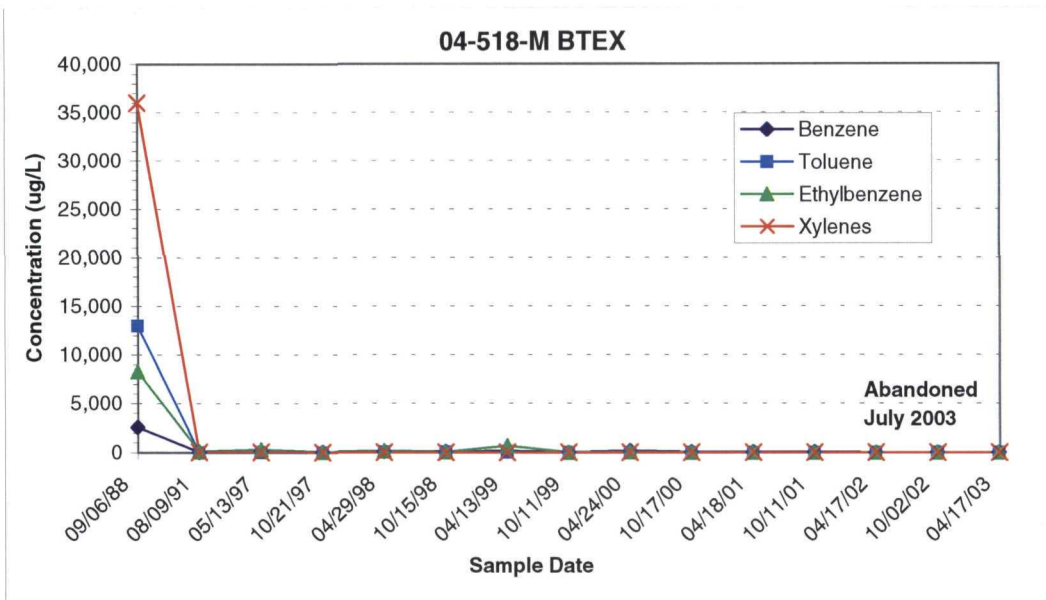


BTEX concentrations from samples after 1991 are plotted on the bottom graph, at a larger scale to show the variations in concentrations.

## OU2 HYDROCARBON CONCENTRATION GRAPHS

WELL: 04-518-M

WPAFB - BMP

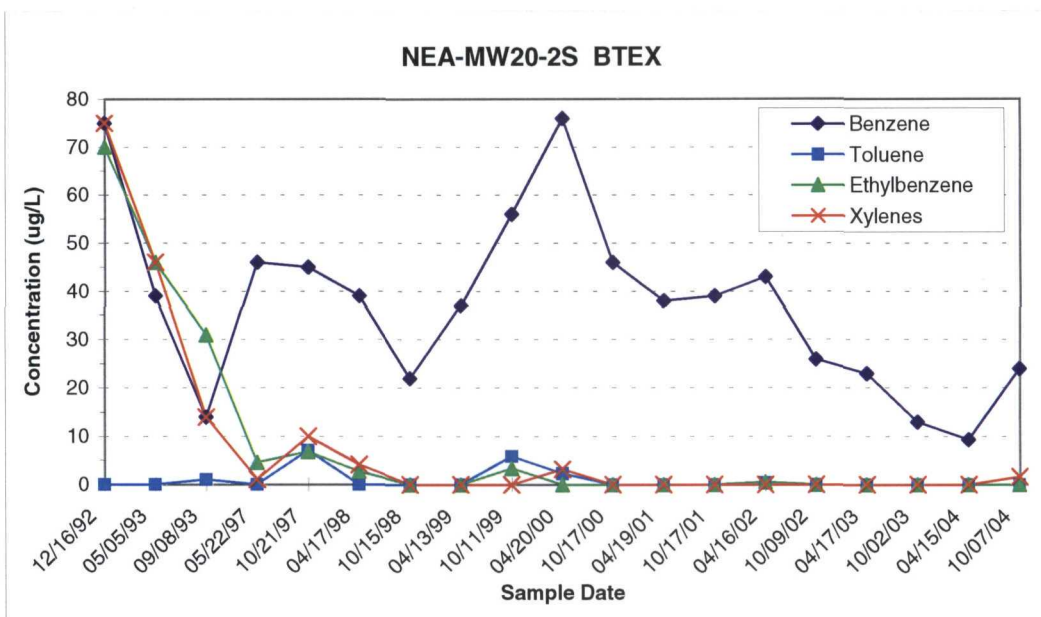


BTEX concentrations from samples after 1988 are plotted on the bottom graph, at a larger scale to show the variations in concentrations.

## OU2 HYDROCARBON CONCENTRATION GRAPHS

WELL: NEA-MW20-2S

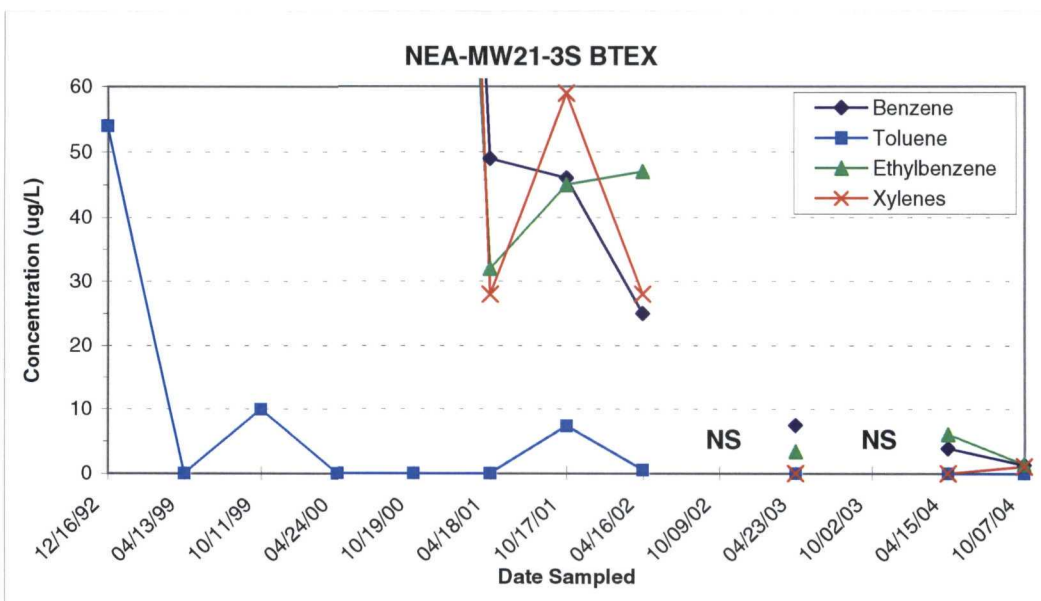
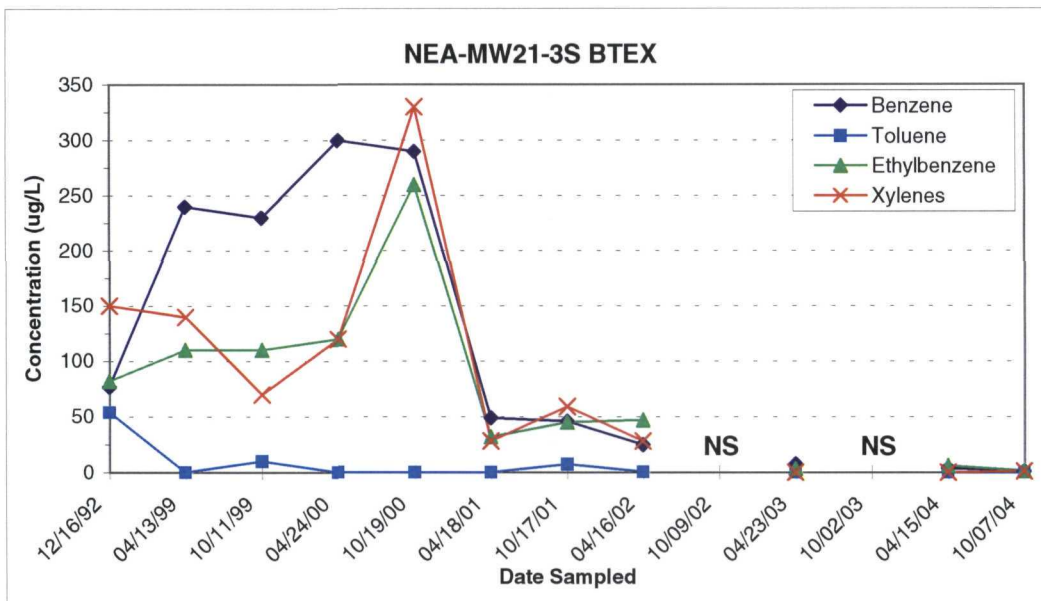
WPAFB - BMP



# OU2 HYDROCARBON CONCENTRATION GRAPHS

WELL: NEA-MW21-3S

WPAFB - BMP

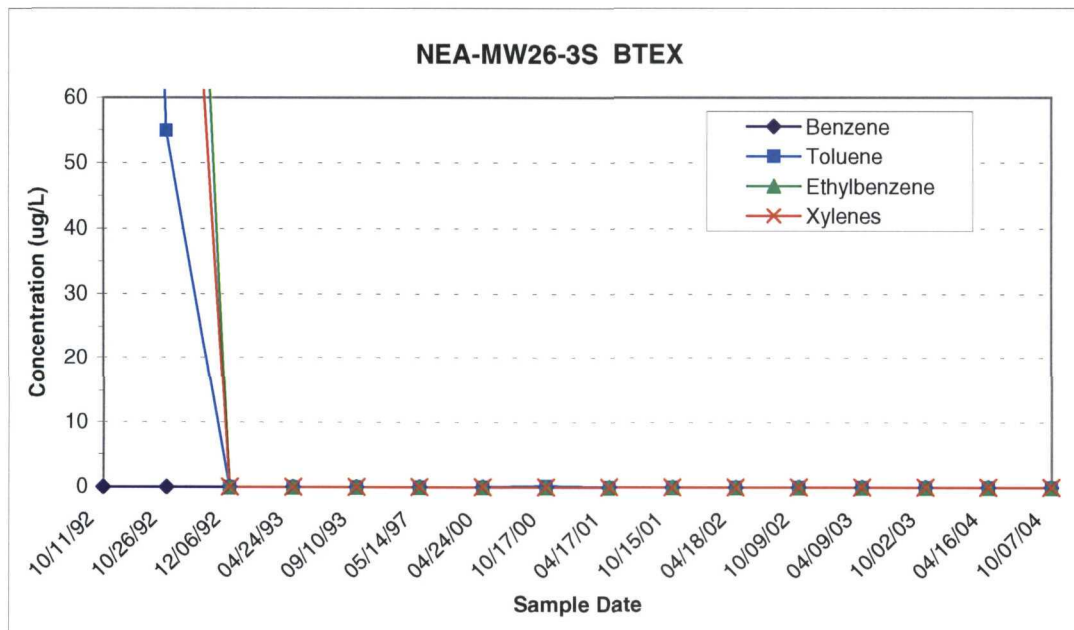
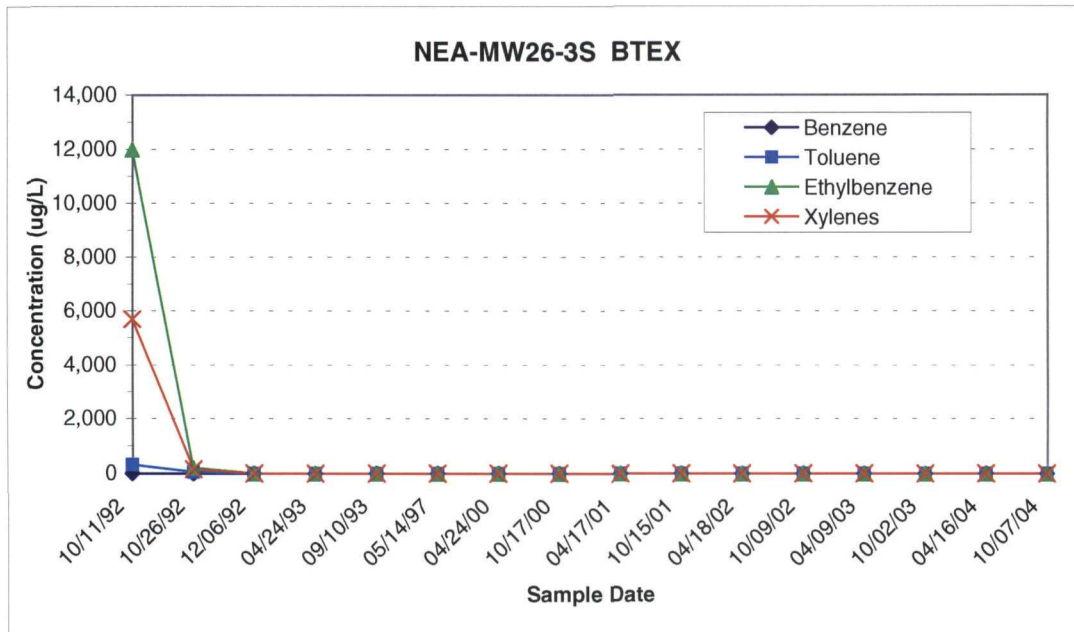


BTEX concentrations from samples after 1988 are plotted on the bottom graph, at a larger scale to show the variations in concentrations.

## OU2 HYDROCARBON CONCENTRATION GRAPHS

WELL: NEA-MW26-3S

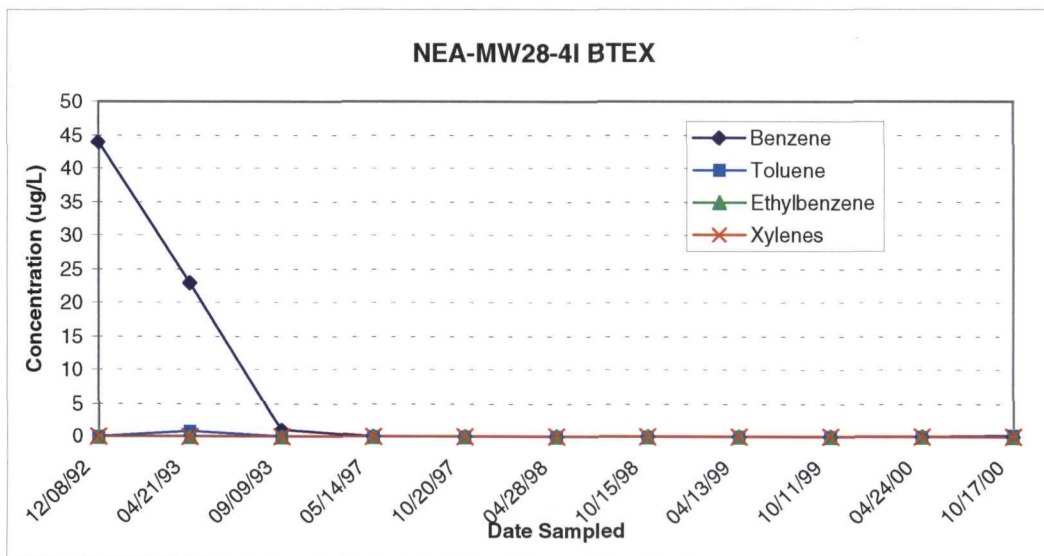
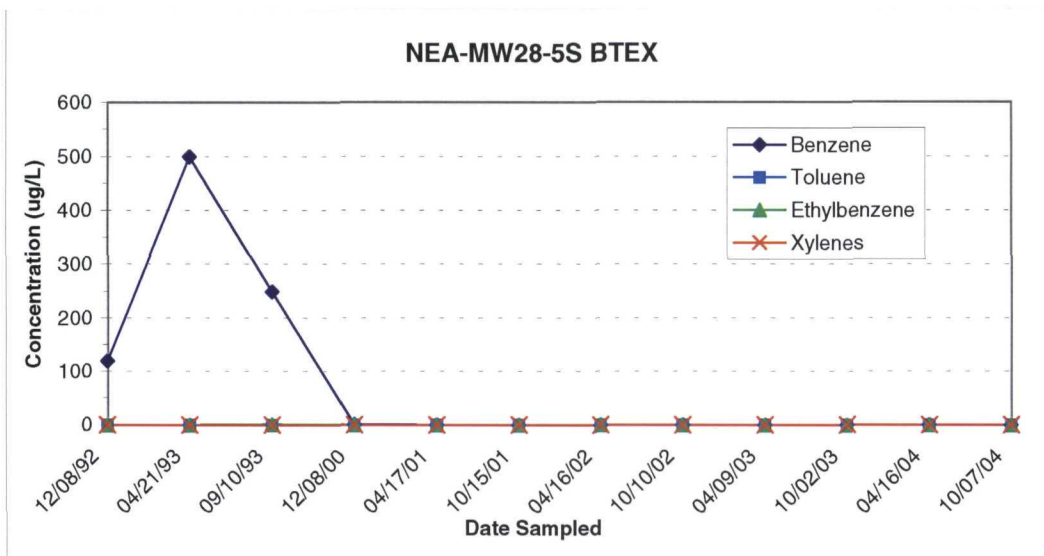
WPAFB-BMP



BTEX concentrations from samples after 1988 are plotted on the bottom graph, at a larger scale to show the variations in concentrations.



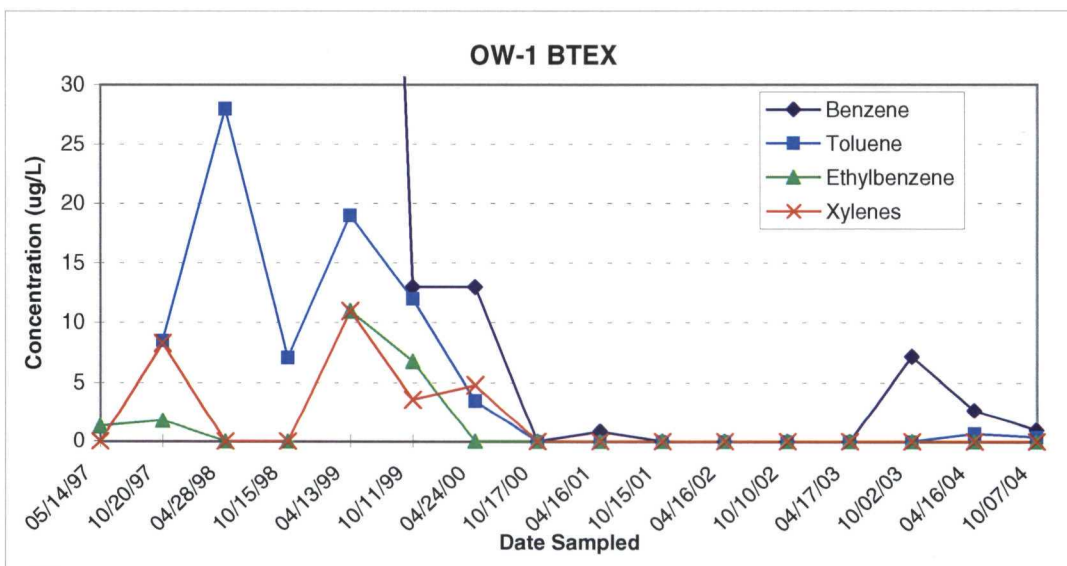
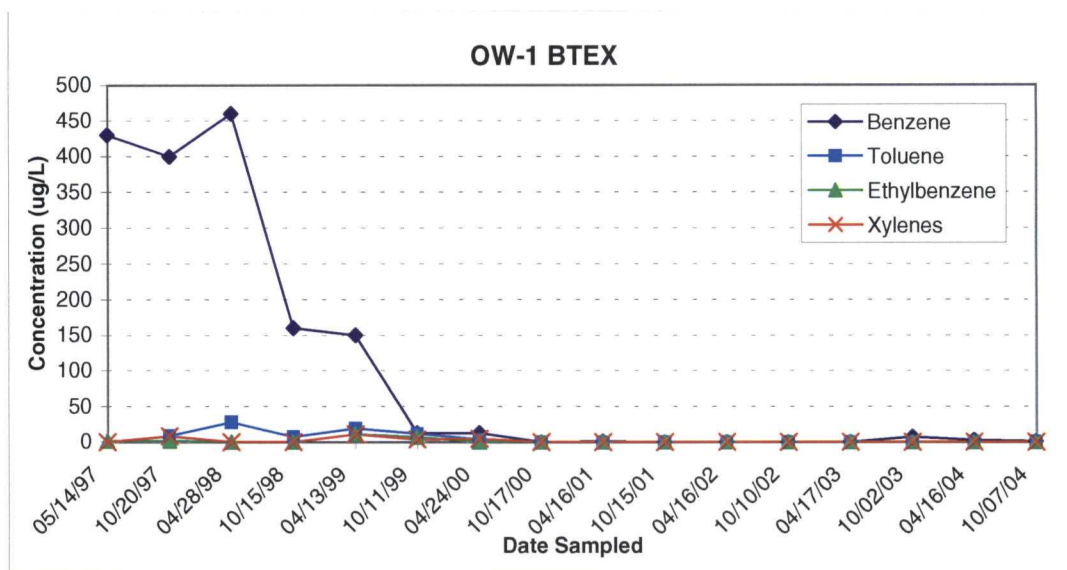
**OU2 HYDROCARBON CONCENTRATION GRAPHS**  
**WELLS: NEA-MW28-5S and NEA-MW-28-4I**  
WPAFB - BMP



## OU2 HYDROCARBON CONCENTRATION GRAPHS

WELL: OW-1

WPAFB-BMP



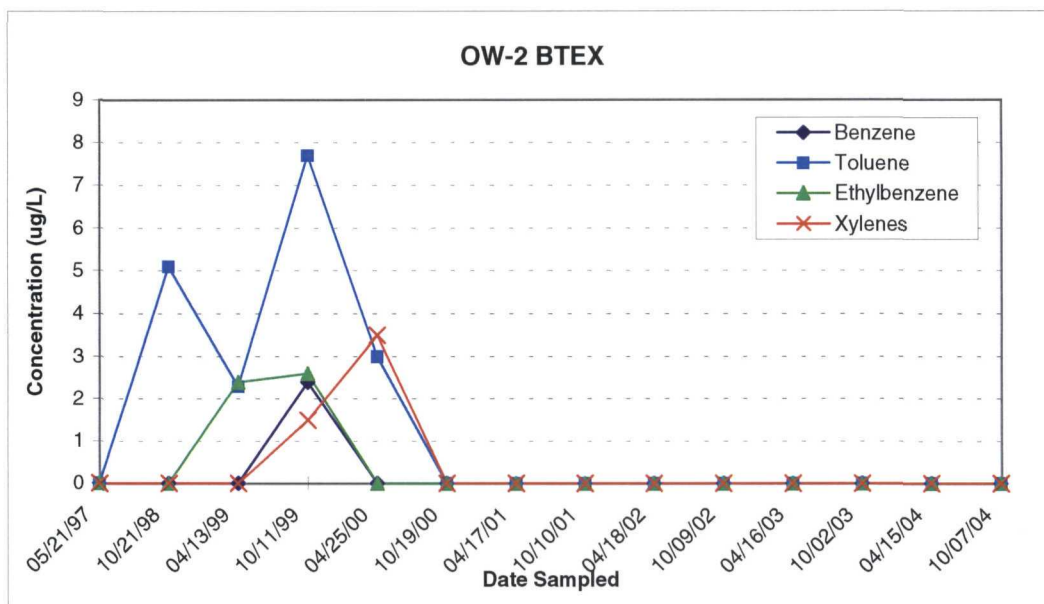
BTEX concentrations are plotted on the bottom graph, at a larger scale to show the variations in concentrations.



# OU2 HYDROCARBON CONCENTRATION GRAPHS

WELL: OW-2

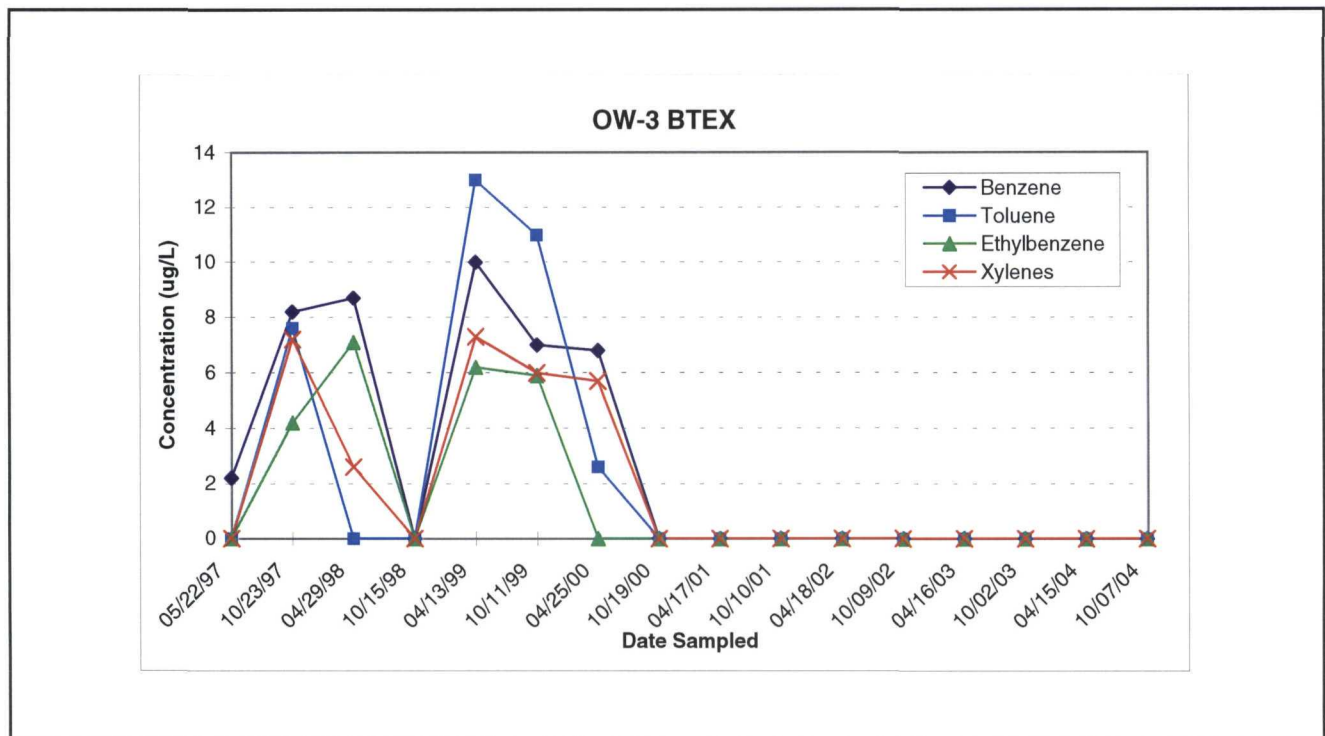
WPAFB - BMP



## OU2 HYDROCARBON CONCENTRATION GRAPHS

WELL: OW-3

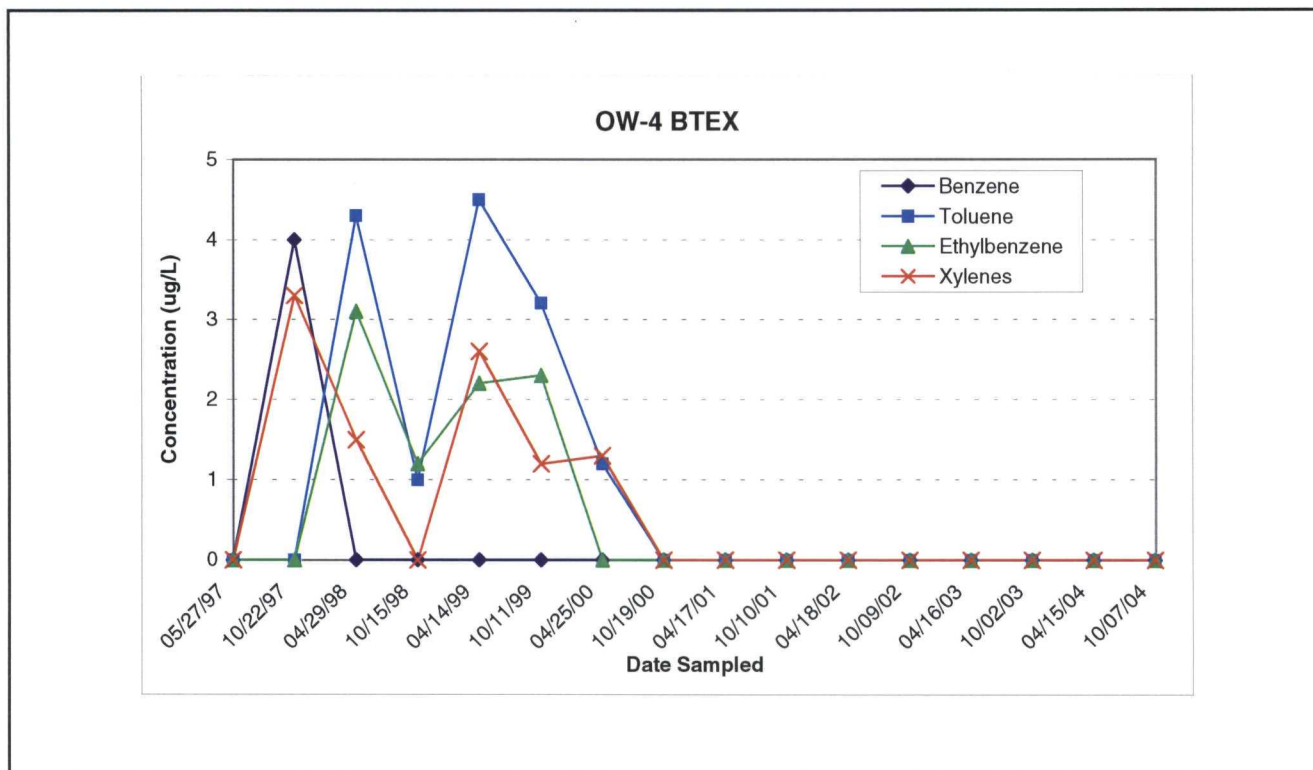
WPAFB - BMP



# OU2 HYDROCARBON CONCENTRATION GRAPHS

WELL: OW-4

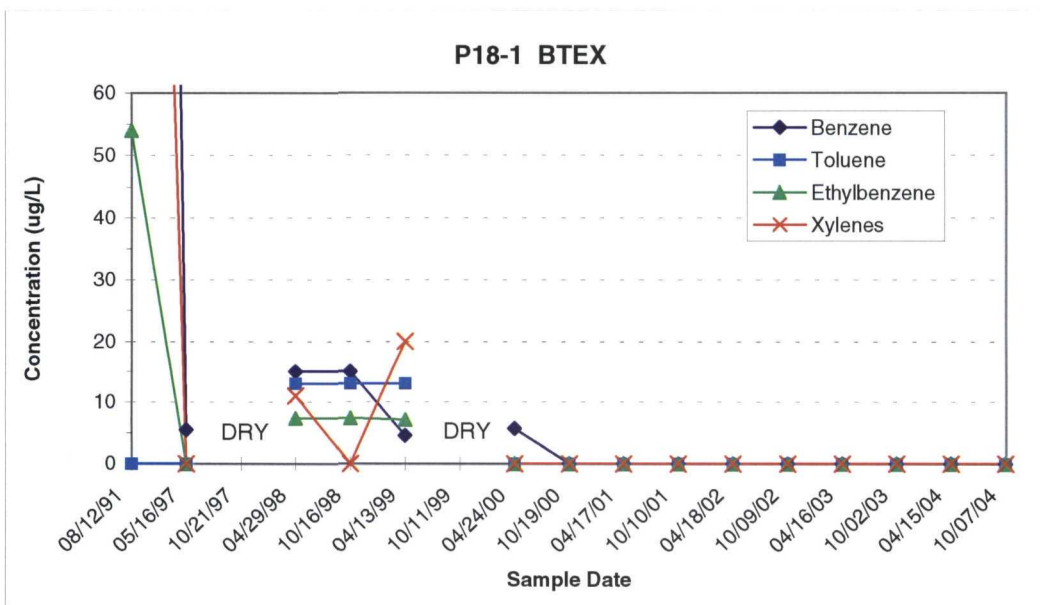
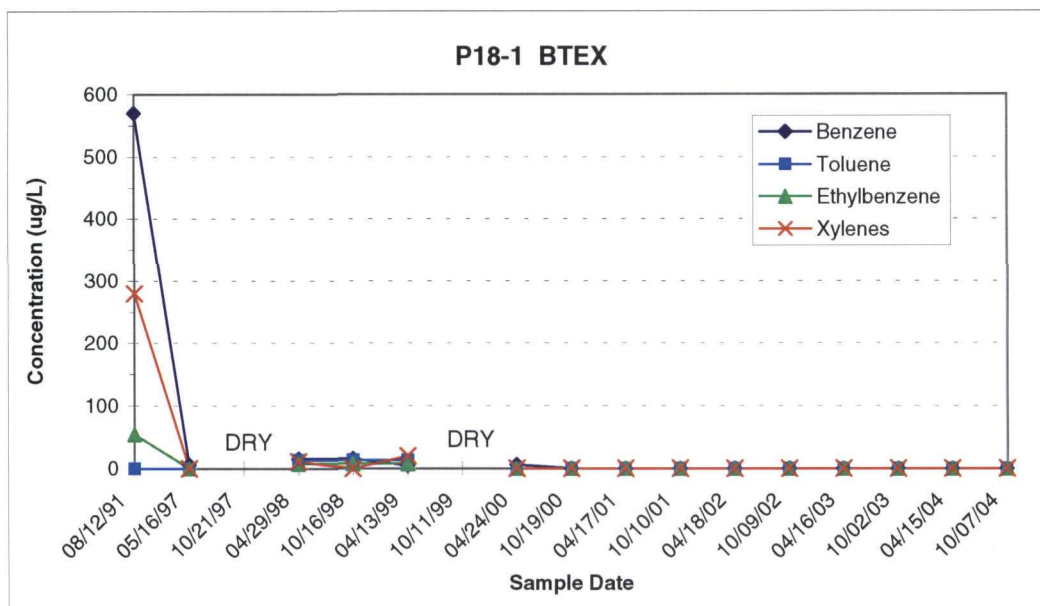
WPAFB - BMP



# OU2 HYDROCARBON CONCENTRATION GRAPHS

WELL: P18-1

WPAFB - BMP

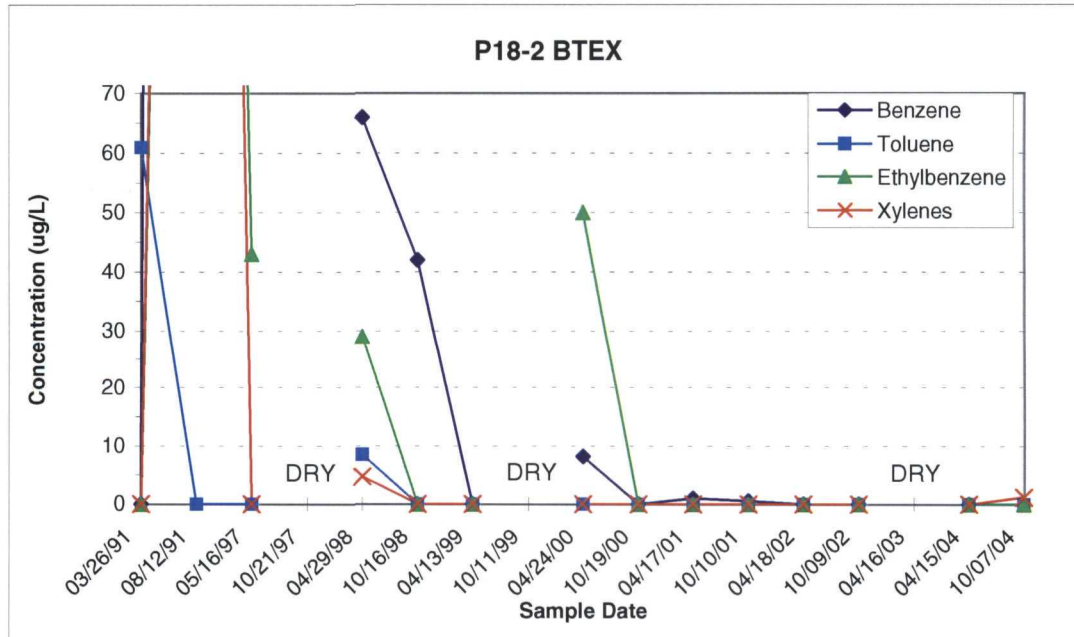
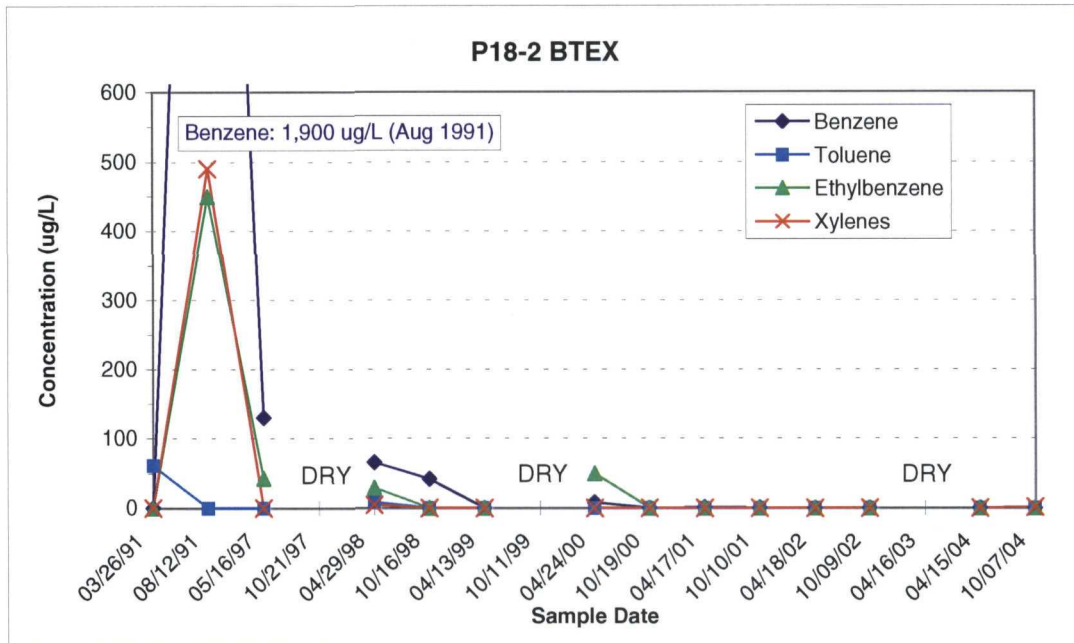


BTEX concentrations are plotted on the bottom graph, at a larger scale to show the variations in concentrations.

## OU2 HYDROCARBON CONCENTRATION GRAPHS

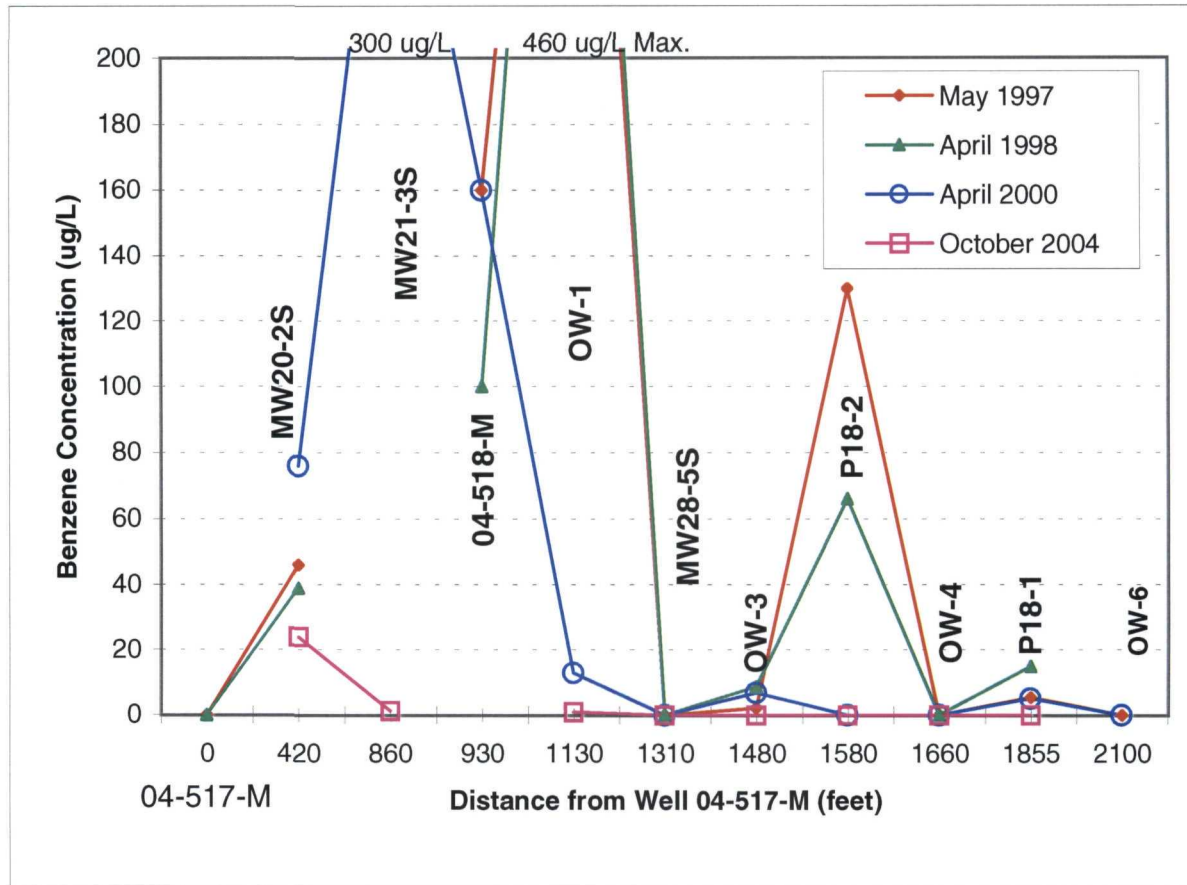
WELL: P18-2

WPAFB - BMP



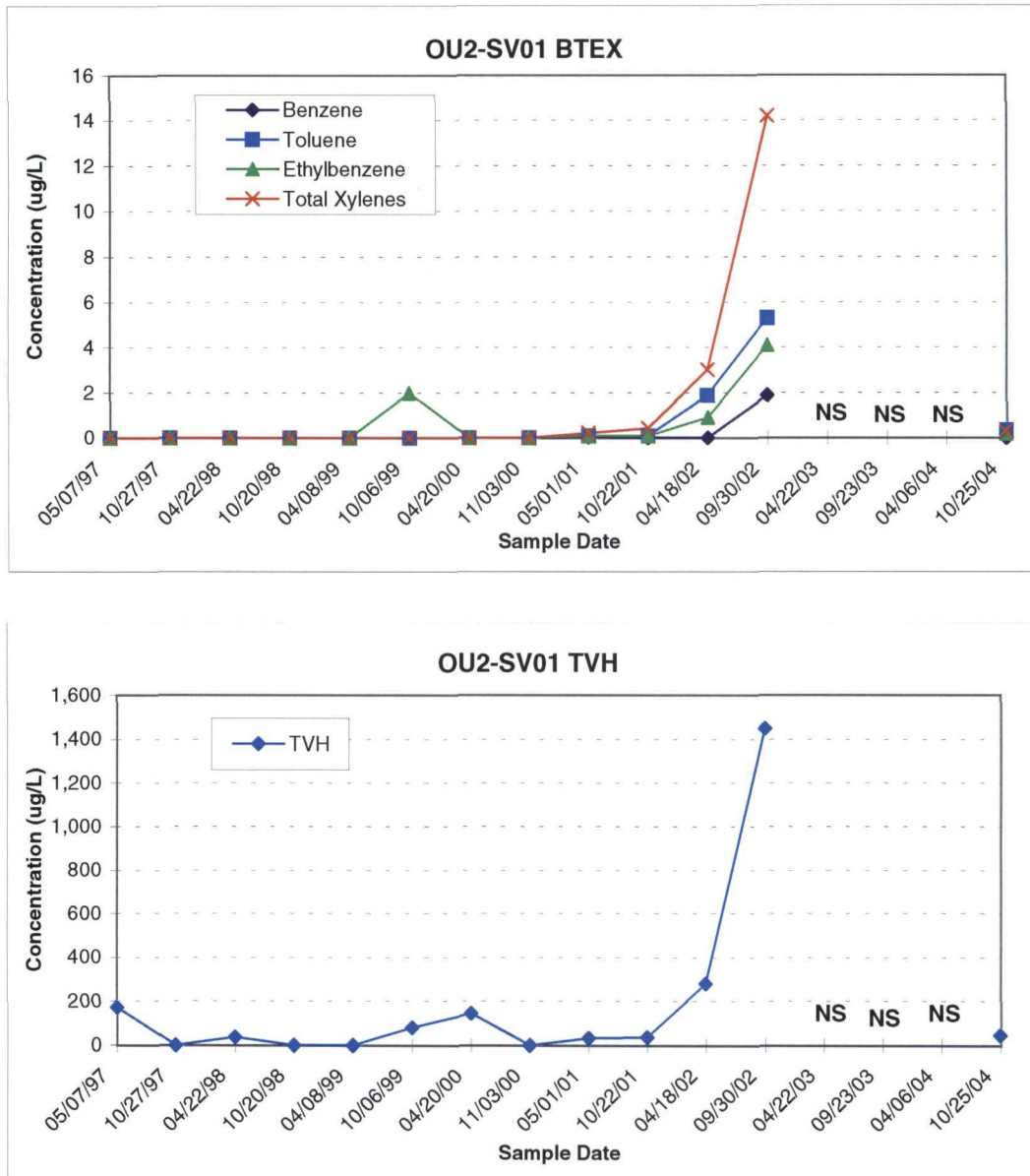
BTEX concentrations are plotted on the bottom graph, at a larger scale to show the variations in concentrations.

# **OU2 Benzene Concentrations vs Downgradient Distance From Well 04-517-M WPAFB-BMP**

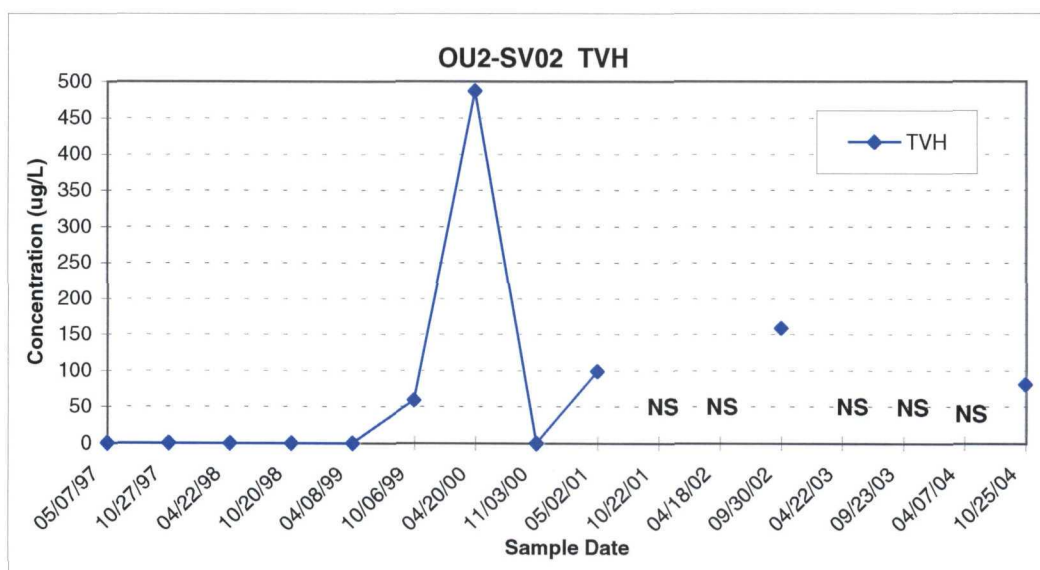
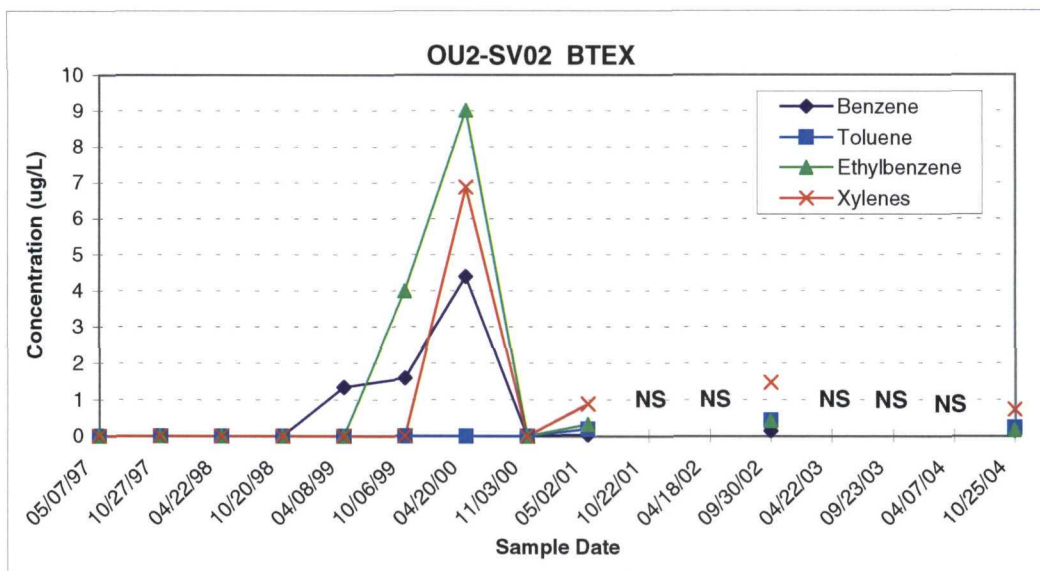




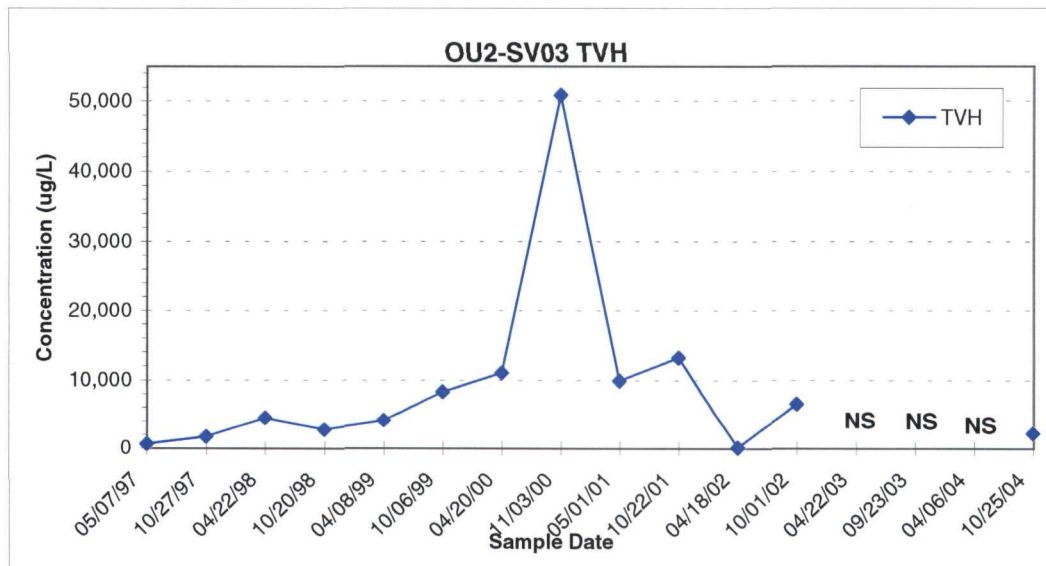
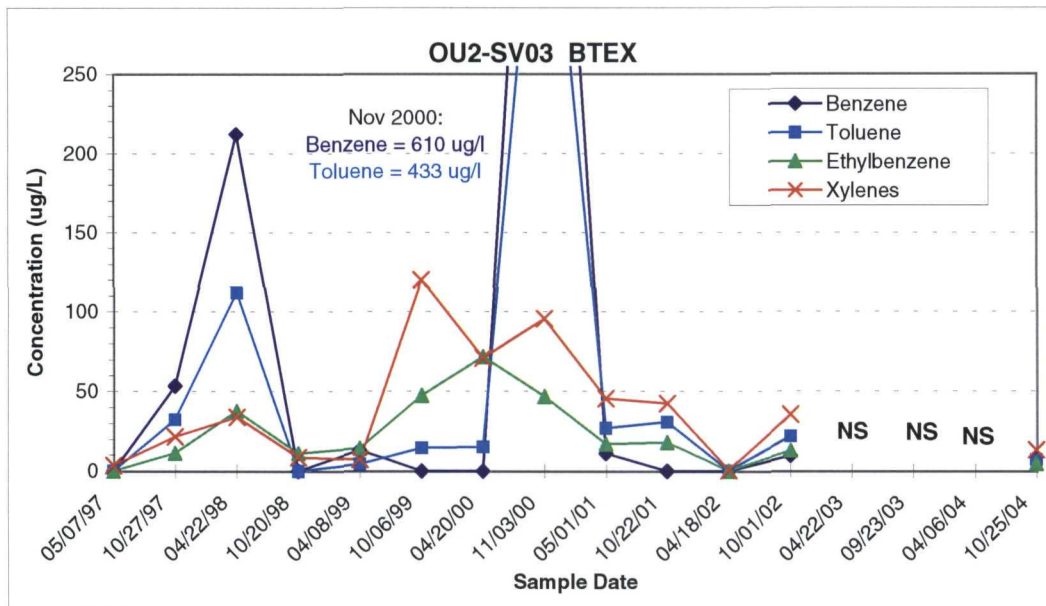
**OU2 SOIL VAPOR HYDROCARBON  
CONCENTRATION GRAPHS  
WELL: OU2-SV01  
WPAFB - BMP**



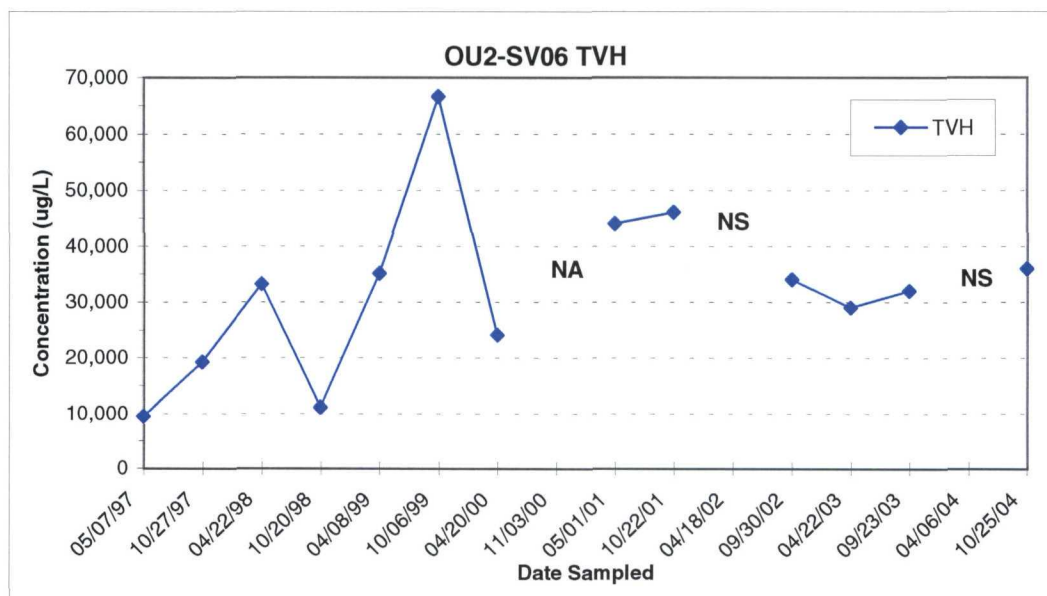
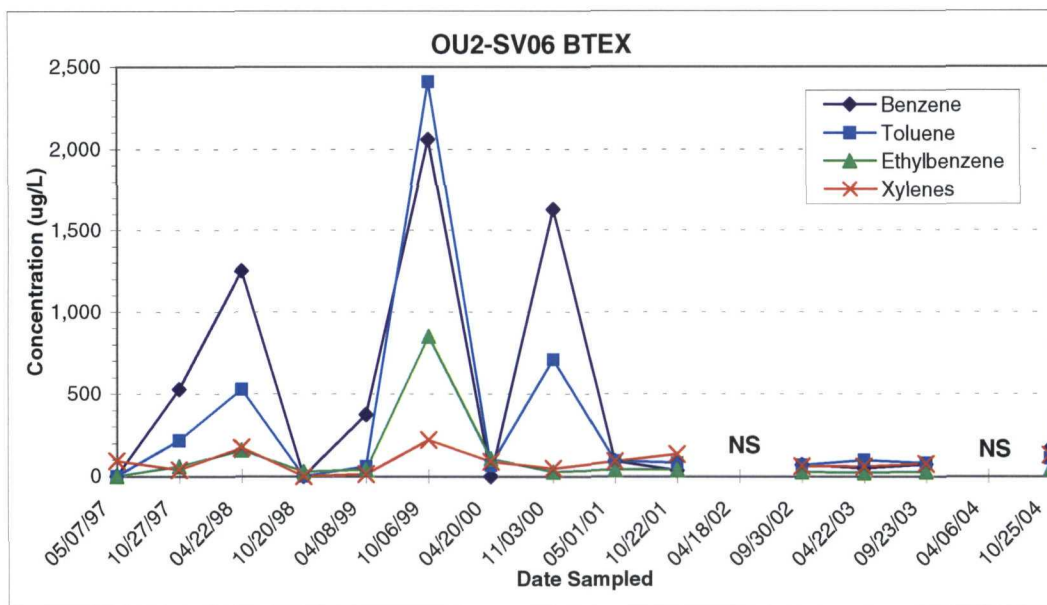
**OU2 SOIL VAPOR HYDROCARBON  
CONCENTRATION GRAPHS  
WELL: OU2-SV02  
WPAFB - BMP**



**OU2 SOIL VAPOR HYDROCARBON  
CONCENTRATION GRAPHS  
WELL: OU2-SV03  
WPAFB - BMP**

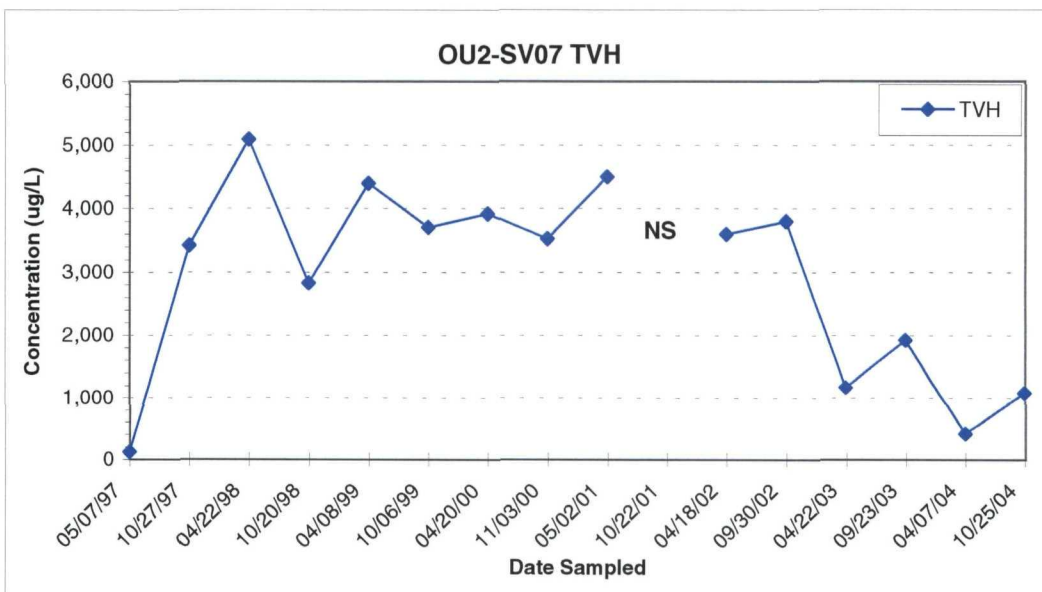
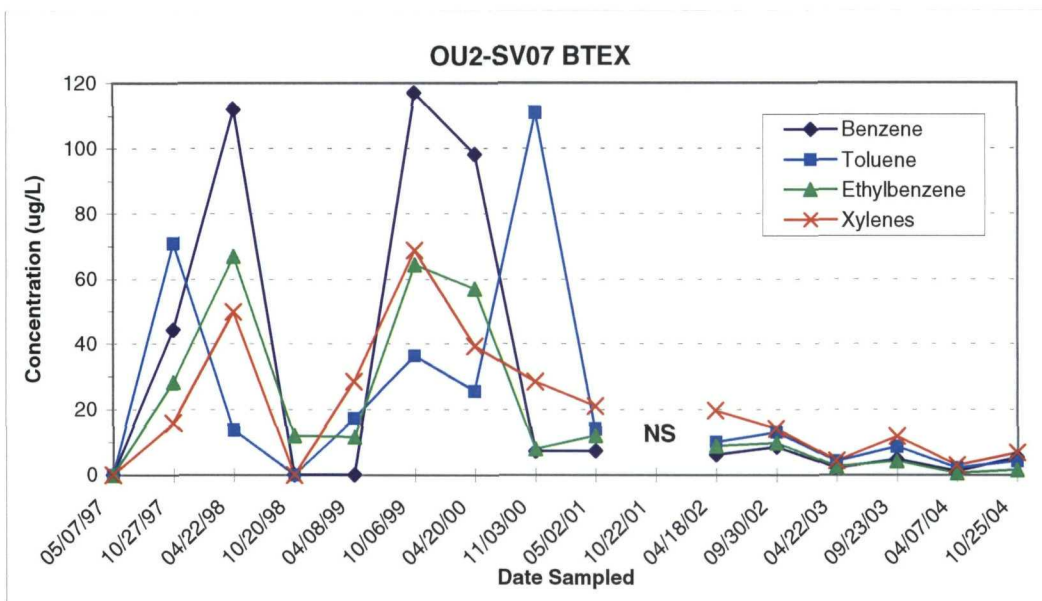


**OU2 SOIL VAPOR HYDROCARBON  
CONCENTRATION GRAPHS  
WELL: OU2-SV06  
WPAFB - BMP**



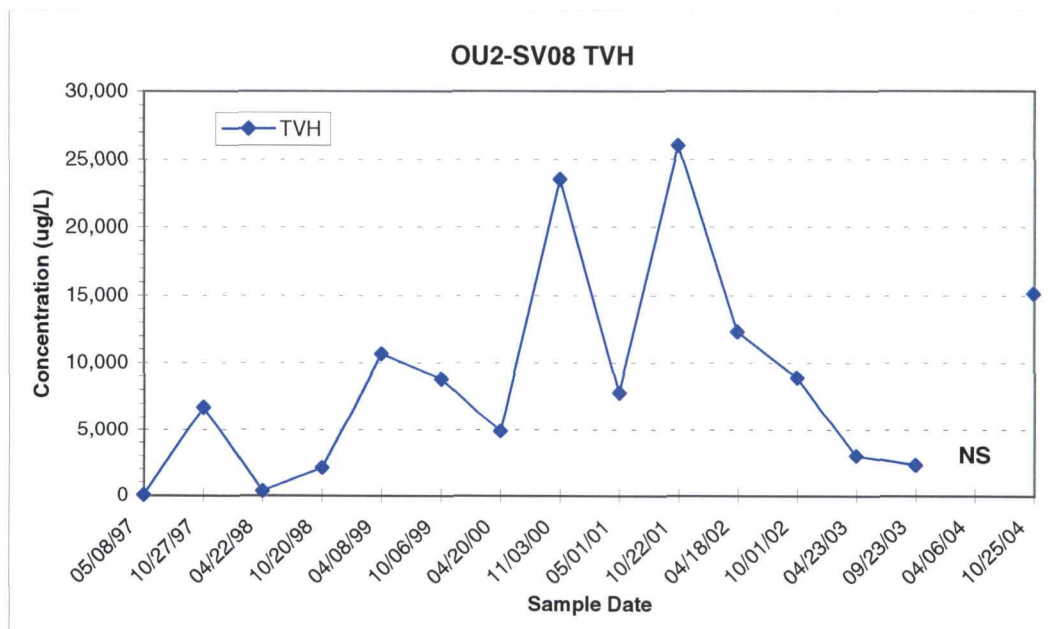
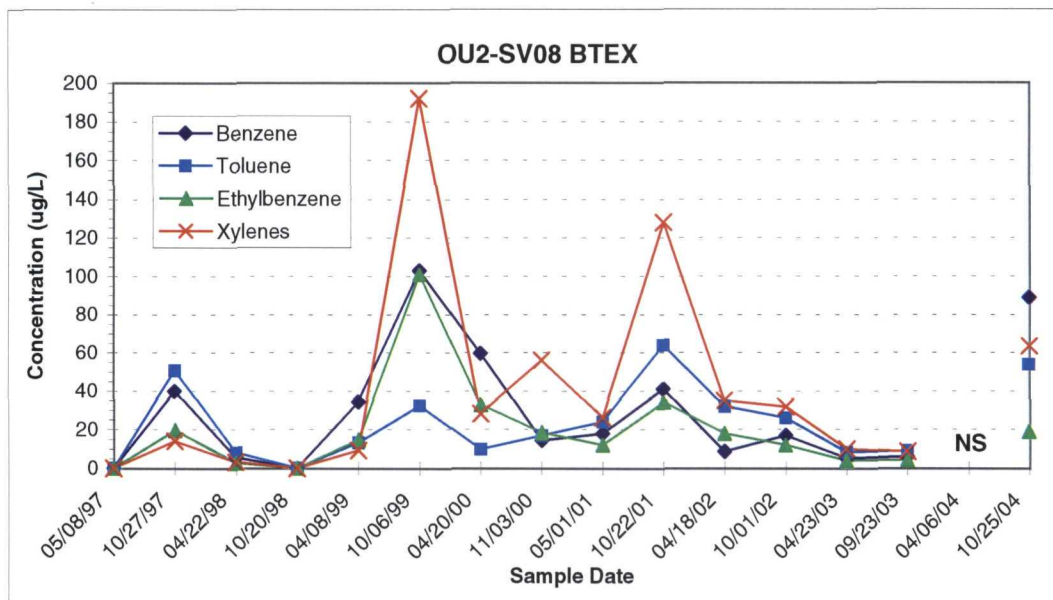
**FIGURE 5-26**

**OU2 SOIL VAPOR HYDROCARBON  
CONCENTRATION GRAPHS  
WELL: OU2-SV07  
WPAFB - BMP**



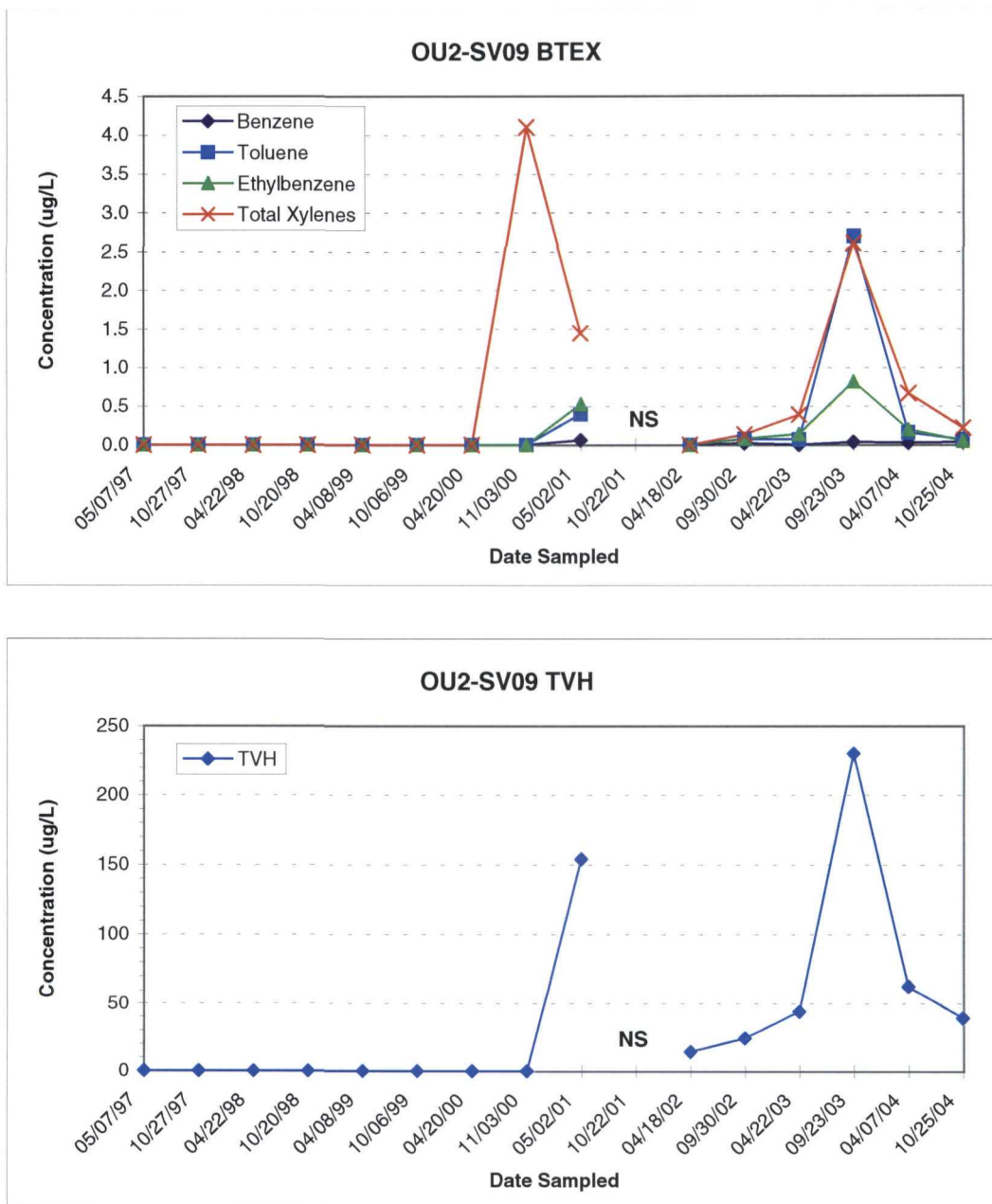


**OU2 SOIL VAPOR HYDROCARBON  
CONCENTRATION GRAPHS  
WELL: OU2-SV08  
WPAFB - BMP**

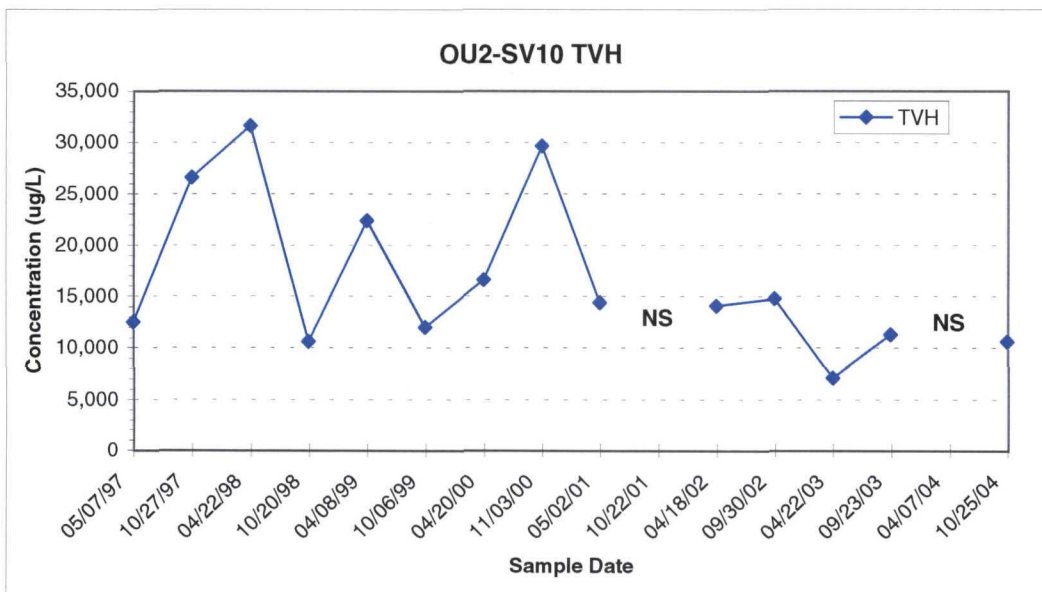
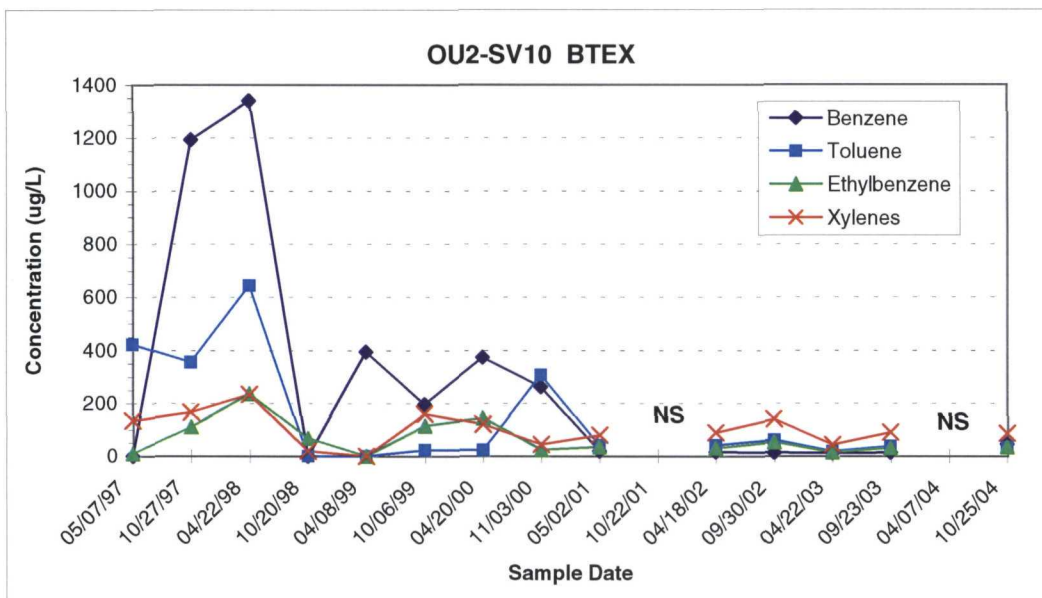




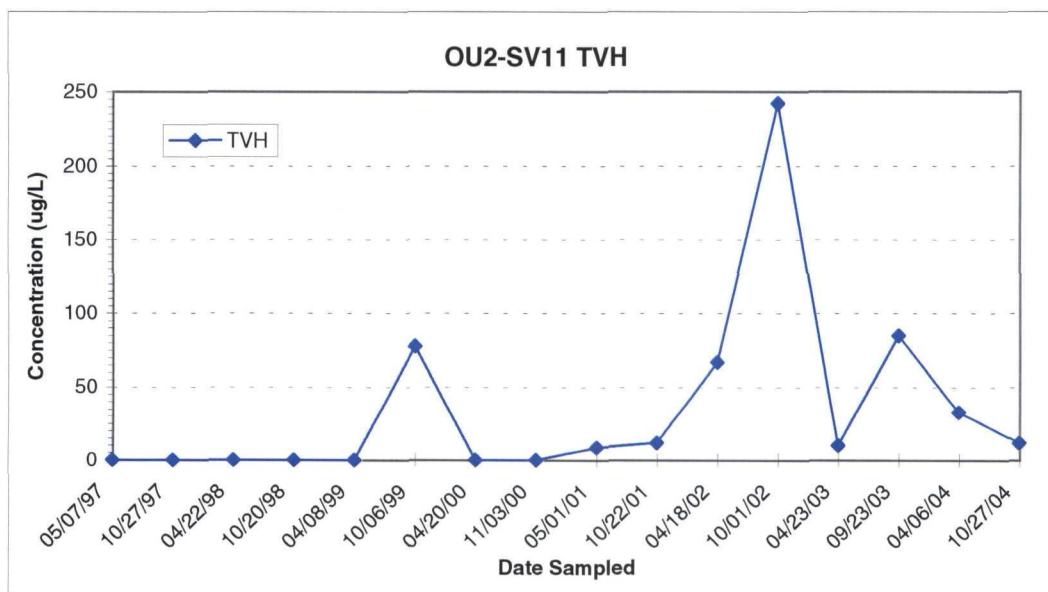
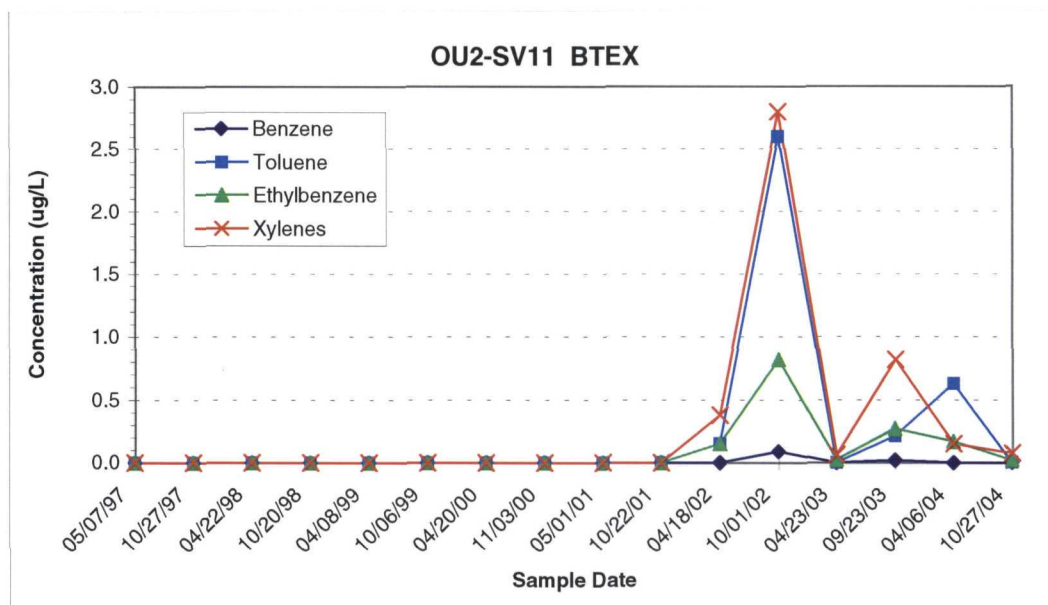
**OU2 SOIL VAPOR HYDROCARBON  
CONCENTRATION GRAPHS  
WELL: OU2-SV09  
WPAFB - BMP**



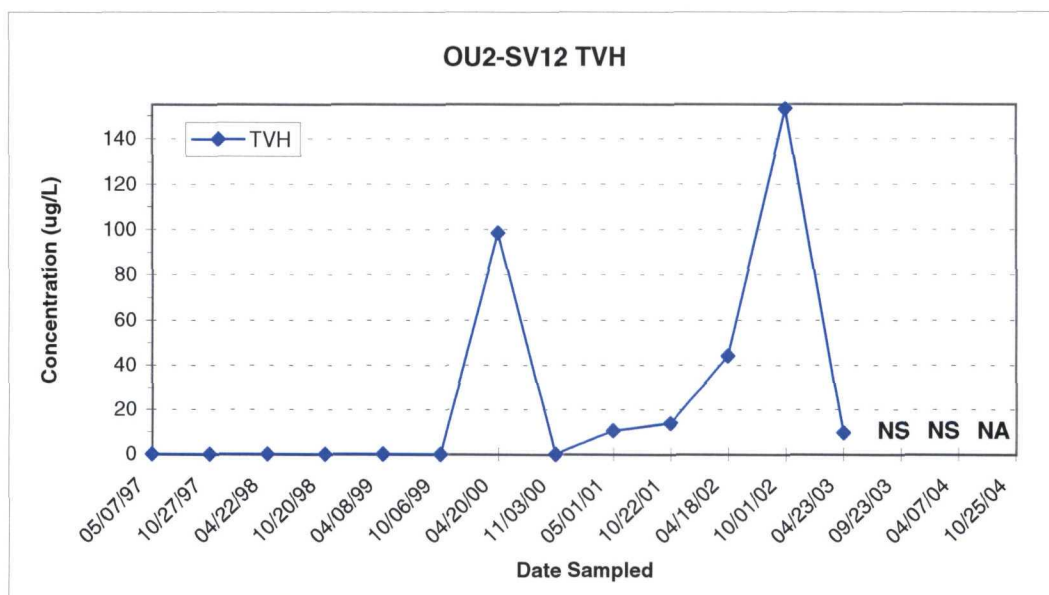
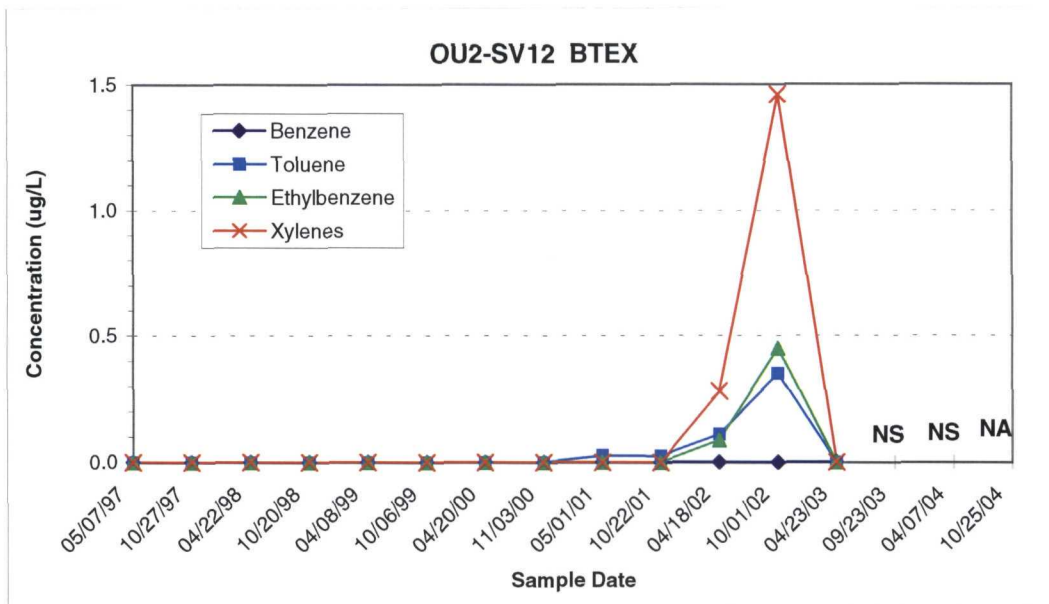
**OU2 SOIL VAPOR HYDROCARBON  
CONCENTRATION GRAPHS  
WELL: OU2-SV10  
WPAFB - BMP**



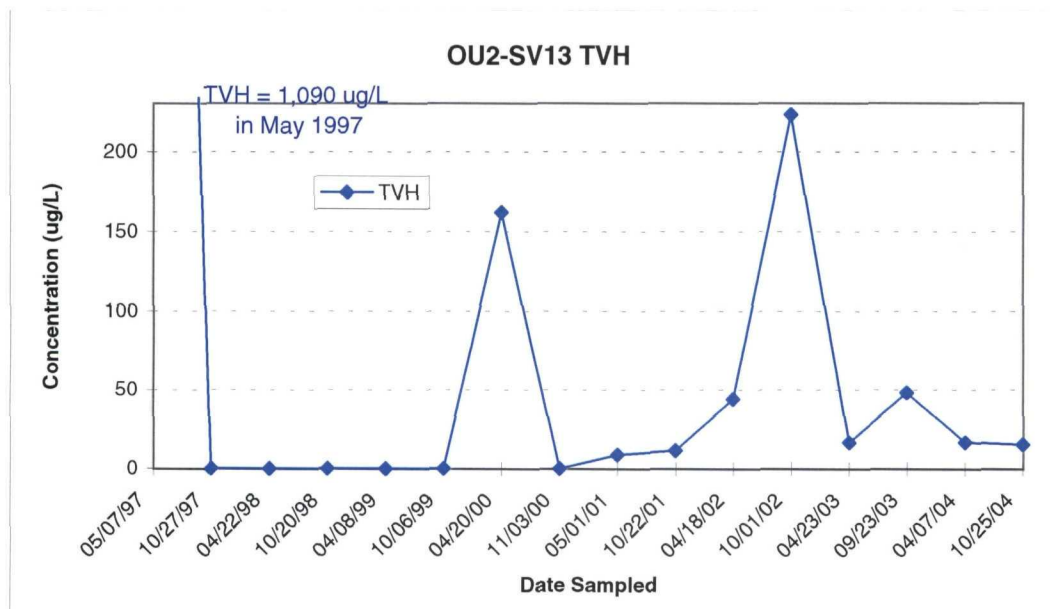
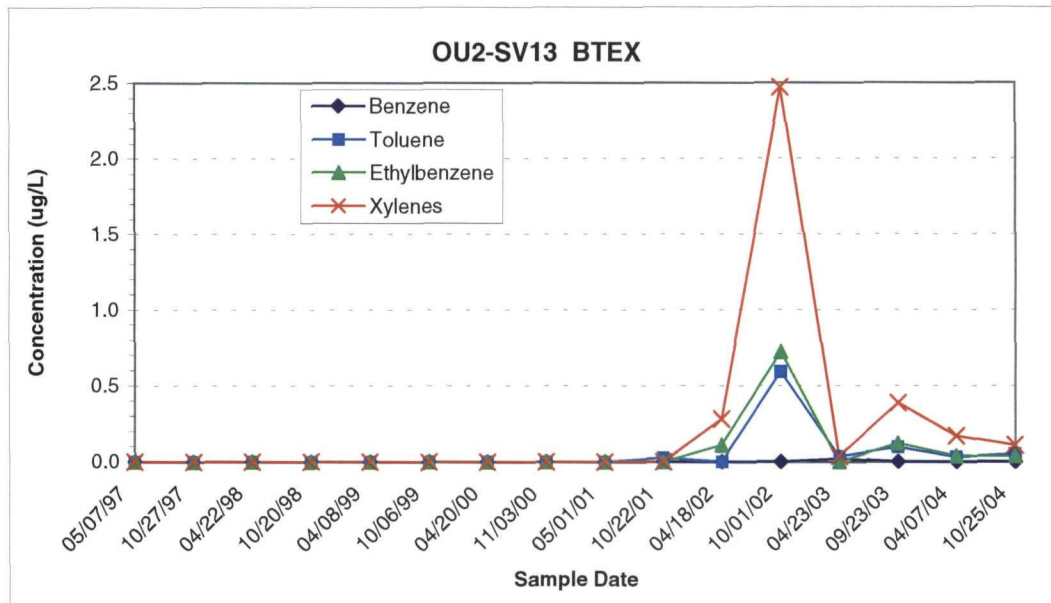
**OU2 SOIL VAPOR TOTAL HYDROCARBON  
CONCENTRATION GRAPH  
WELL: OU2-SV11  
WPAFB - BMP**



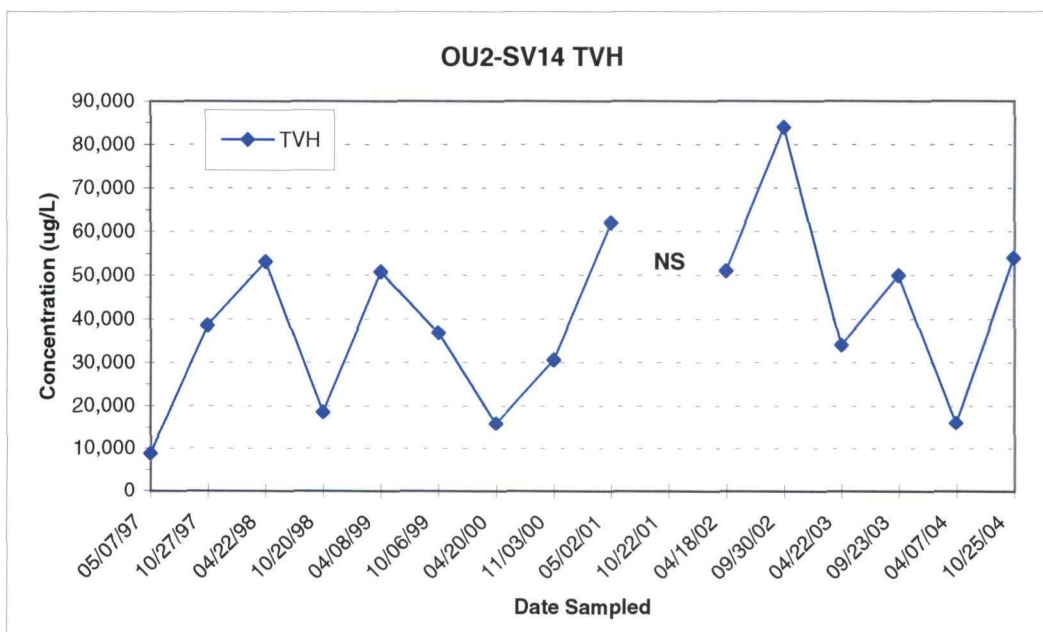
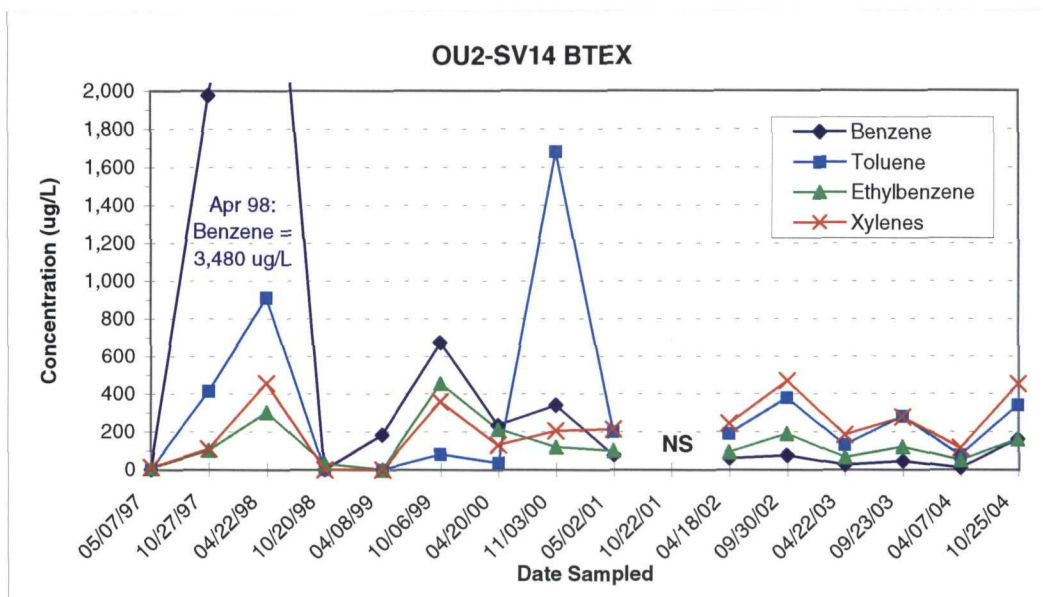
**OU2 SOIL VAPOR TOTAL HYDROCARBON  
CONCENTRATION GRAPH  
WELL: OU2-SV12  
WPAFB - BMP**



**OU2 SOIL VAPOR TOTAL HYDROCARBON  
CONCENTRATION GRAPHS  
WELL: OU2-SV13  
WPAFB-BMP**

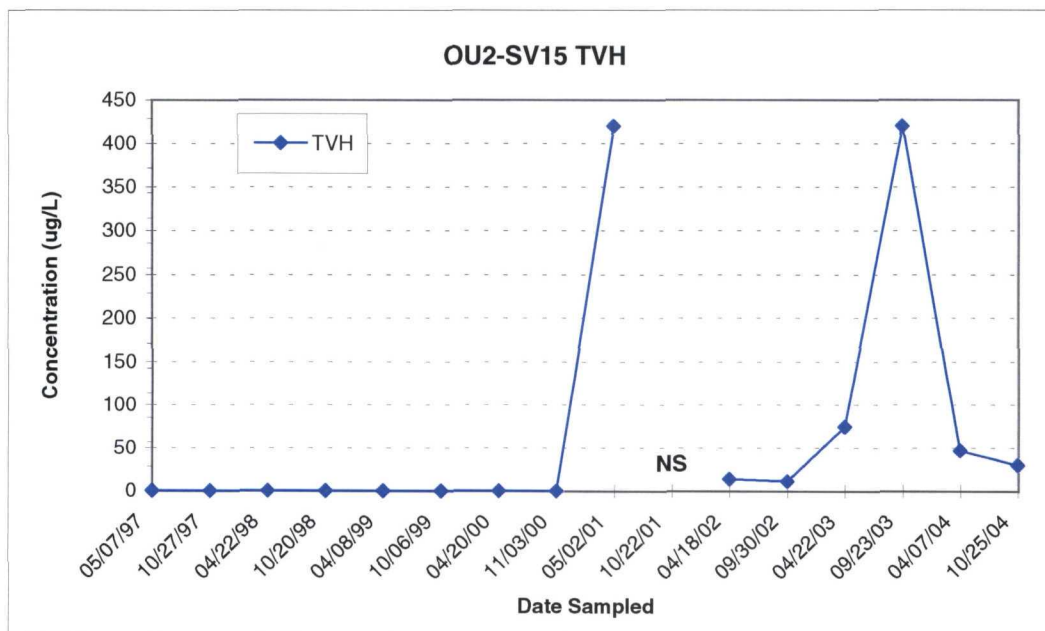
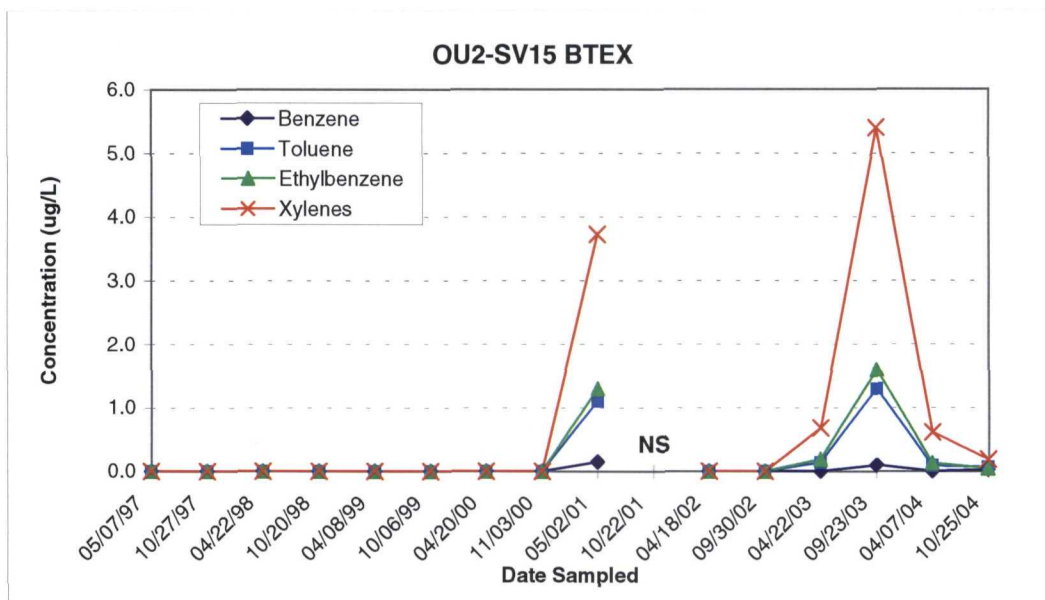


**OU2 SOIL VAPOR HYDROCARBON  
CONCENTRATION GRAPHS  
WELL: OU2-SV14  
WPAFB - BMP**

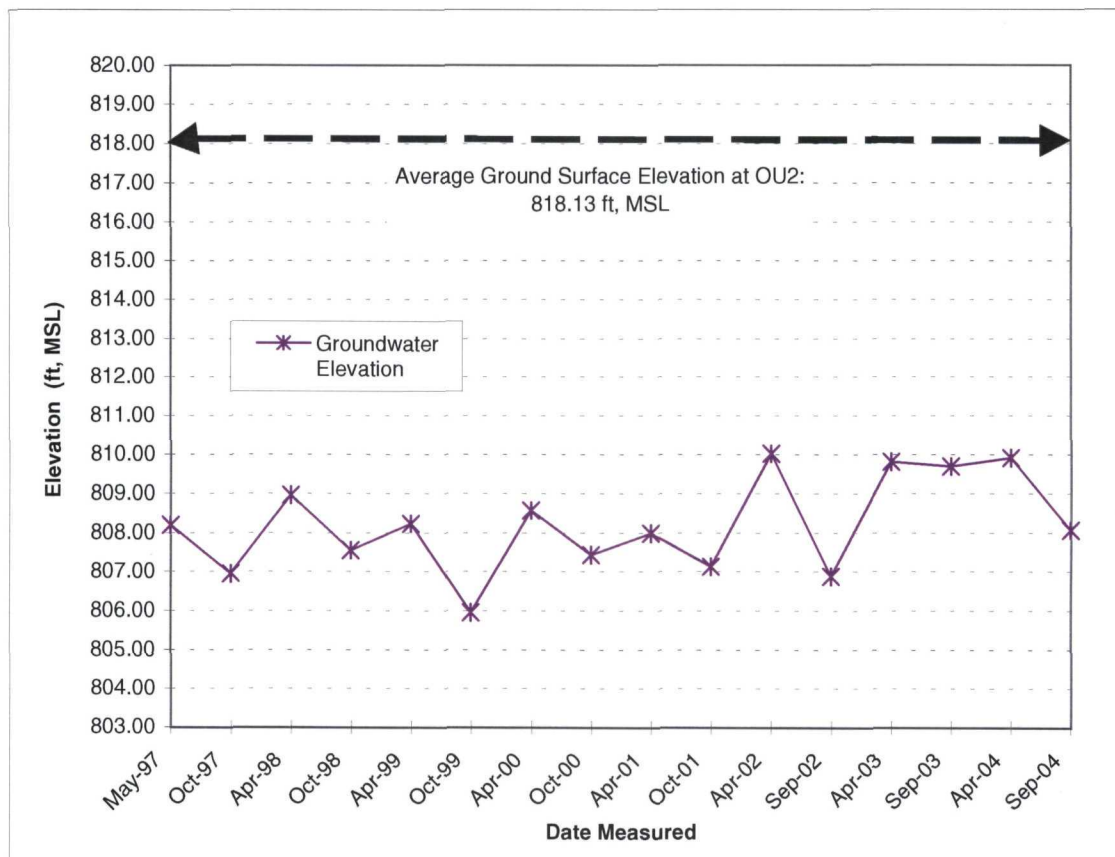




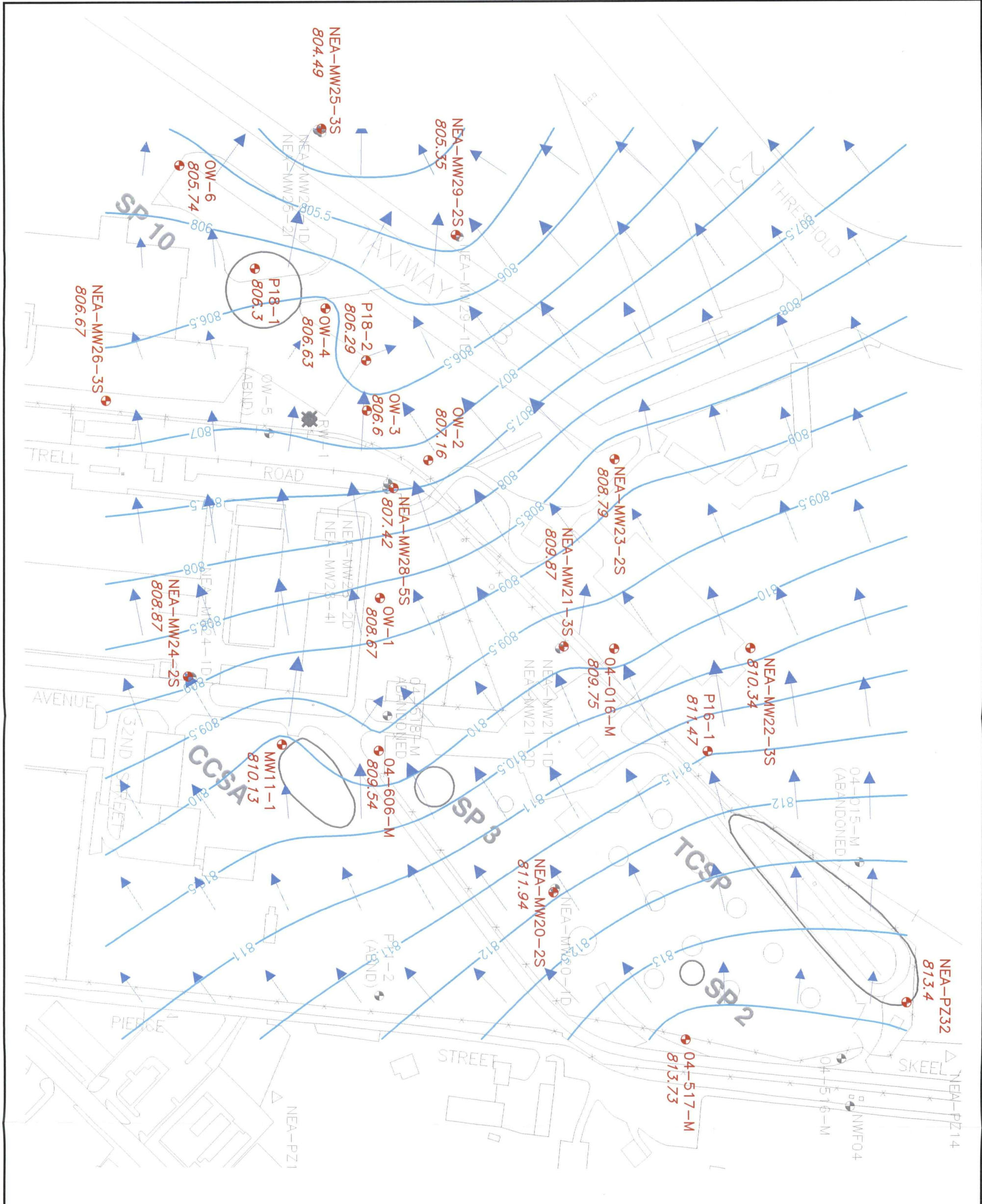
**OU2 SOIL VAPOR TOTAL HYDROCARBON  
CONCENTRATION GRAPHS  
WELL: OU2-SV15  
WPAFB - BMP**



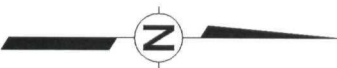
# OU2 Average Groundwater Elevations WPAFB-BMP







- LEGEND:**
- GROUNDWATER MONITORING WELLS
  - GROUNDWATER MONITORING WELLS MEASURED DURING THE BASELINE MONITORING PROGRAM.
  - SEPTEMBER 2004 GROUNDWATER LEVEL ELEVATION (FT. MSL)
  - 808.67
  - SEPTEMBER 2004 GROUNDWATER ELEVATION CONTOUR (ft. msl) (DASHED WHERE INFERRED)
  - GROUNDWATER FLOW VELOCITY VECTOR




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OHIO

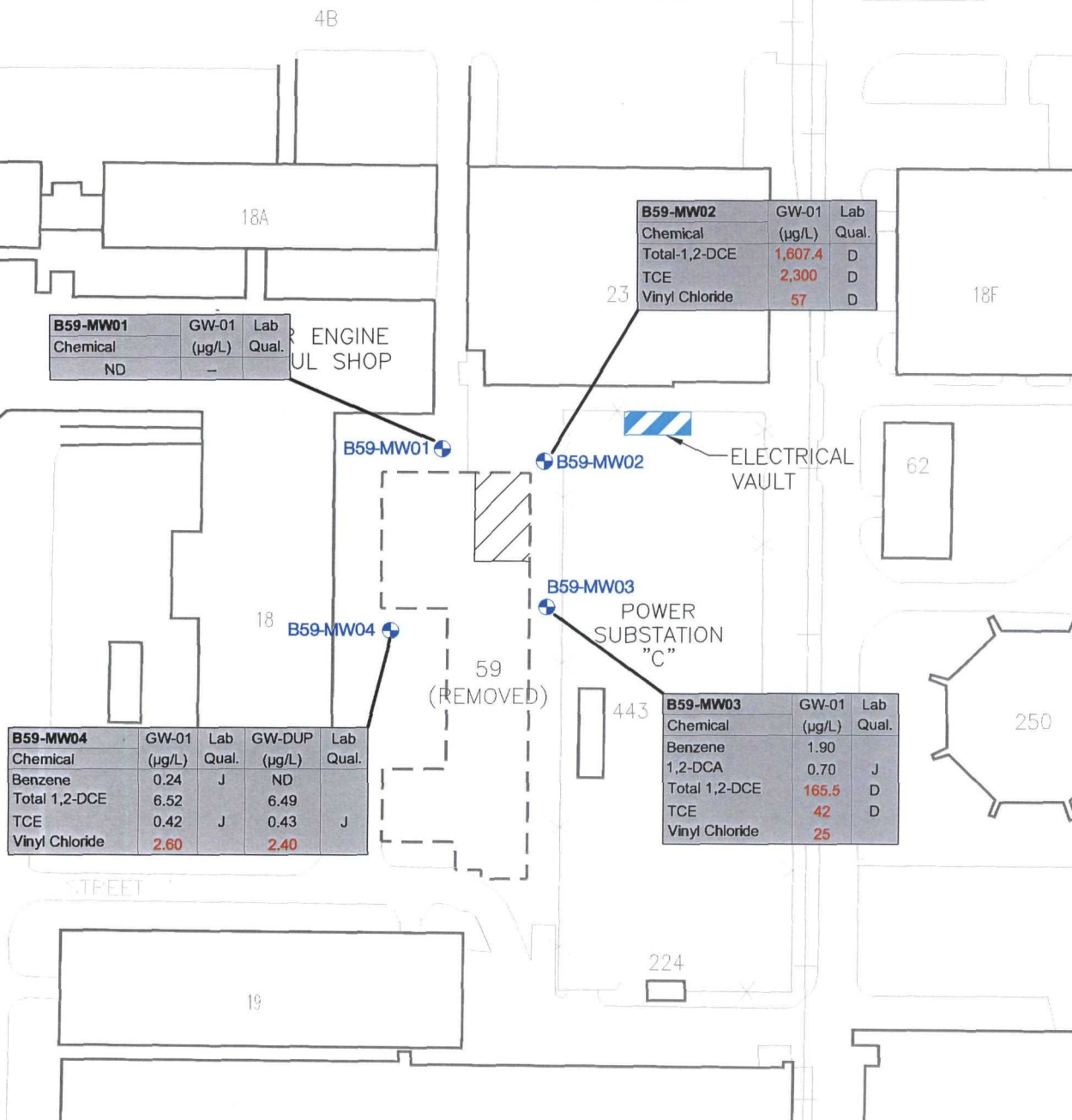
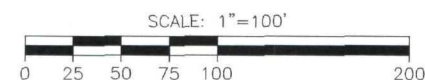
Figure 5-37

OU2 Groundwater Level  
Elevation Contour Map:  
September 28, 2004



**LEGEND:**

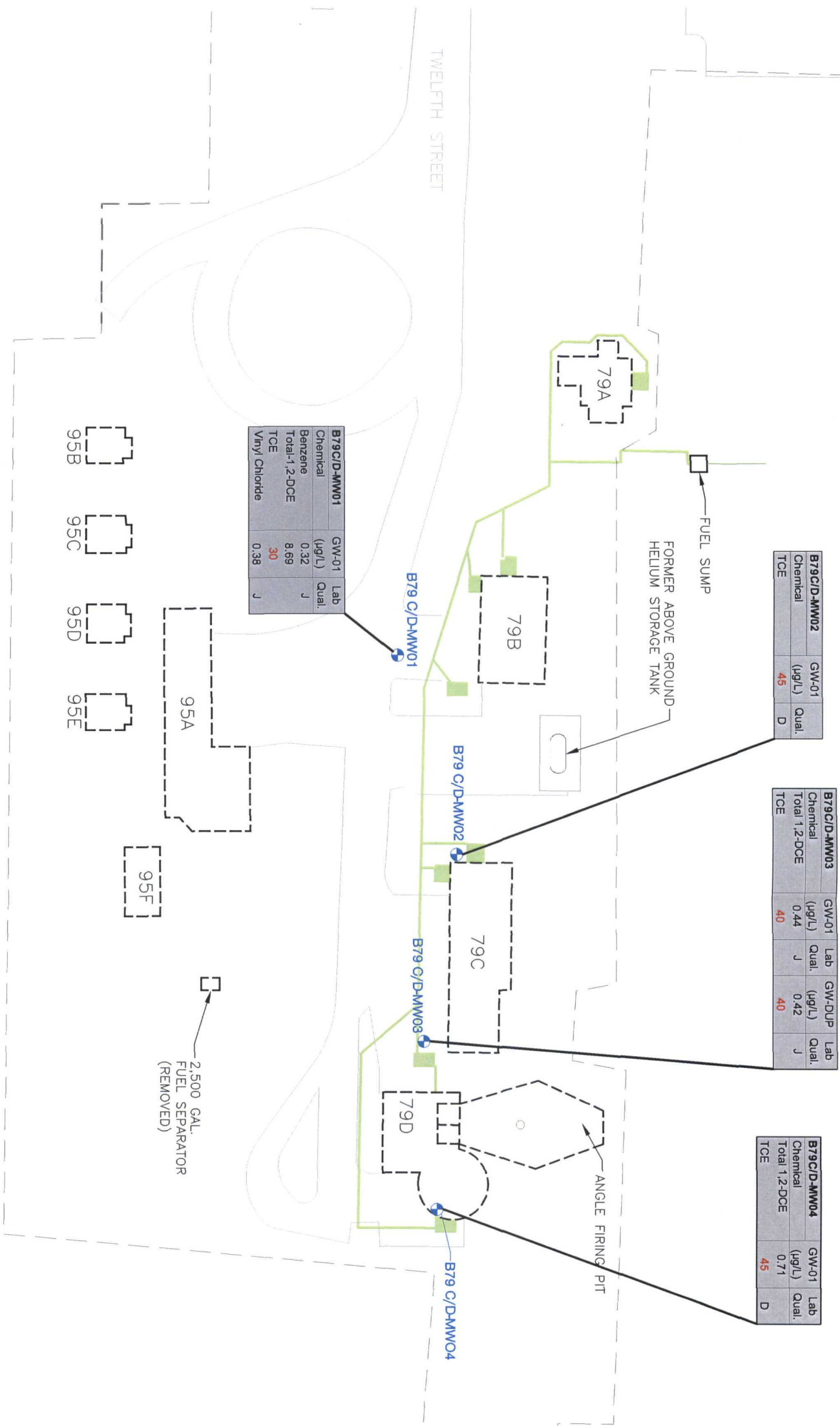
-  MONITORING WELL LOCATION WITH VOC ANALYSIS
- 57 VOC CONCENTRATION (RED = >MCL)
- D - DILUTED RESULT
- J - ESTIMATED RESULT
- ND - NOT DETECTED



WRIGHT-PATTERSON  
 AIR FORCE BASE,  
 OHIO

**Figure 6-1**  
**Former Building 59**  
**Groundwater Concentrations**  
**Of VOCs: October 2004**

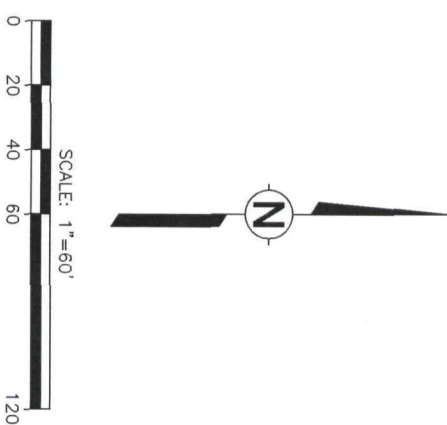
EFDZ 2



EFDZ 3

LEGEND:

- MONITORING WELL LOCATION WITH VOC ANALYSIS
- FORMER ACID PITS
- FORMER ACID DRAIN
- VOC CONCENTRATION (RED=>MCL)
- 45
- D
- DILUTED RESULT
- J
- ESTIMATED RESULT
- ND
- NOT DETECTED
- FORMER BUILDING LOCATION

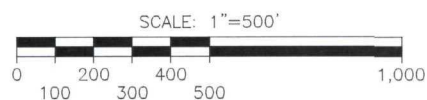


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AIR FORCE BASE,  
OHIO

Figure 6-2  
Former Building 79 Groundwater  
Concentrations of  
VOCs: October 2004







MONITORING WELLS WITH SEMI-ANNUAL VOCs ANALYSIS

7.1	VOC CONCENTRATION (RED=>MCL)
ND	NOT DETECTED
	IRP SITES (LOCATIONS APPROXIMATE)

NEA-MW27-3I	GW-01	Lab
Chemical	(µg/L)	Qual.
PCE	7.1	



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**Figure 6-4  
OU2 Groundwater  
Concentrations of VOCs:  
October 2004**





OU4-MW-02B	GW-01	Lab	GW-DUP	Lab
Chemical	(µg/L)	Qual.	(µg/L)	Qual.
Total-1,2-DCE	0.30	J	0.28	J
TCE	8.80		9.30	

OU4-MW-02A	GW-01	Lab
Chemical	(µg/L)	Qual.
Total-1,2-DCE	6.40	J
TCE	0.33	J

BMP-OU4-01C-84	GW-01	Lab
Chemical	(µg/L)	Qual.
Total 1,2-DCE	0.34	J

BMP-OU4-01B-60	GW-01	Lab
Chemical	(µg/L)	Qual.
Total-1,2-DCE	1.40	
TCE	2.60	
Vinyl Chloride	0.35	J

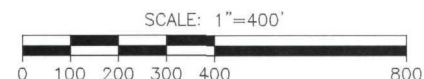
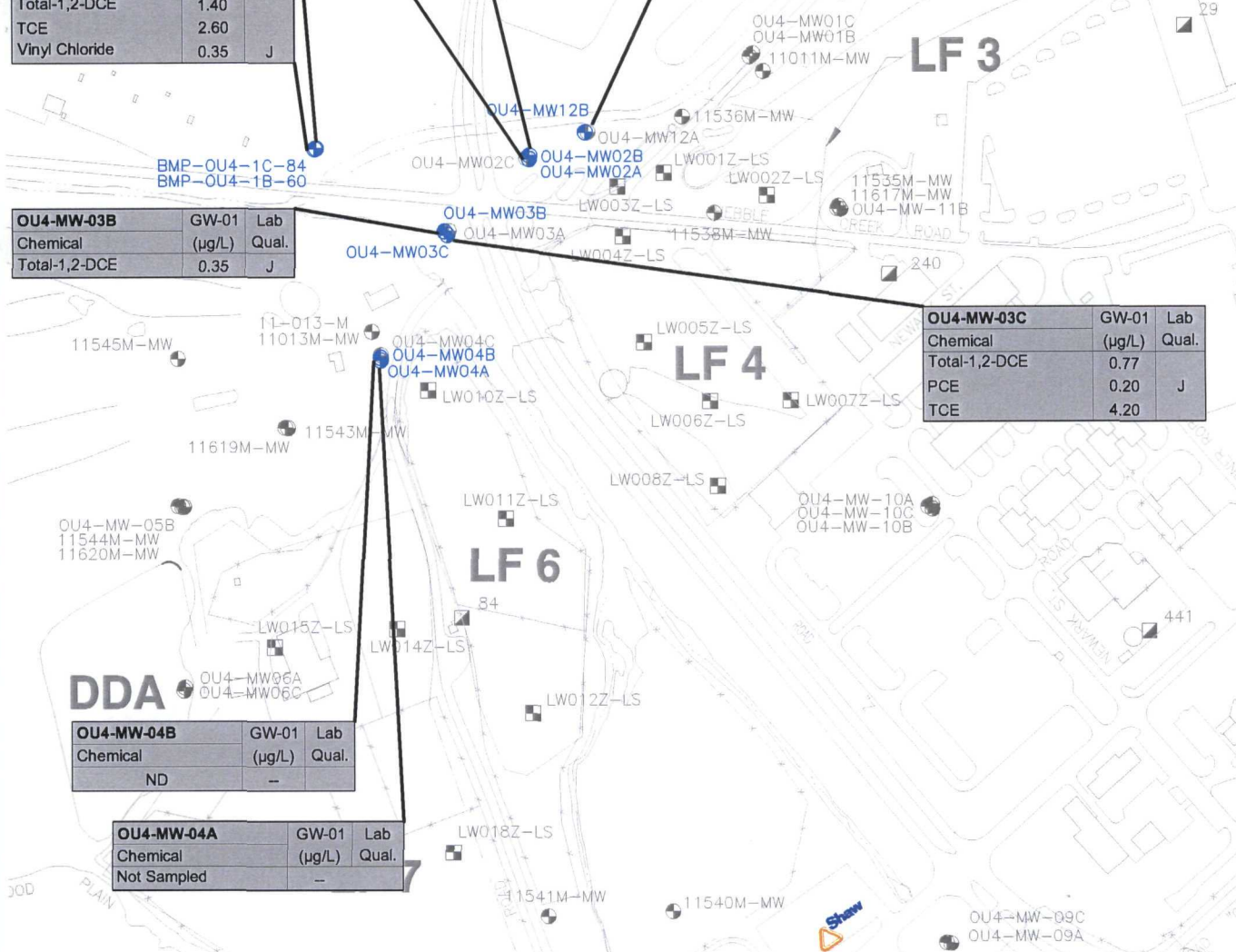
OU4-MW-12B	GW-01	Lab
Chemical	(µg/L)	Qual.
Total-1,2-DCE	0.60	
PCE	11	
TCE	4.5	

OU4-MW-03B	GW-01	Lab
Chemical	(µg/L)	Qual.
Total-1,2-DCE	0.35	J

OU4-MW-03C	GW-01	Lab
Chemical	(µg/L)	Qual.
Total-1,2-DCE	0.77	
PCE	0.20	J
TCE	4.20	

OU4-MW-04B	GW-01	Lab
Chemical	(µg/L)	Qual.
ND	-	

OU4-MW-04A	GW-01	Lab
Chemical	(µg/L)	Qual.
Not Sampled	-	



#### LEGEND

- MONITORING WELLS WITH VOCs ANALYSIS
- J ESTIMATED RESULT
- ND NOT DETECTED
- 11 VOC CONCENTRATION (RED = >MCL)
- IRP SITES (LOCATIONS APPROXIMATE)



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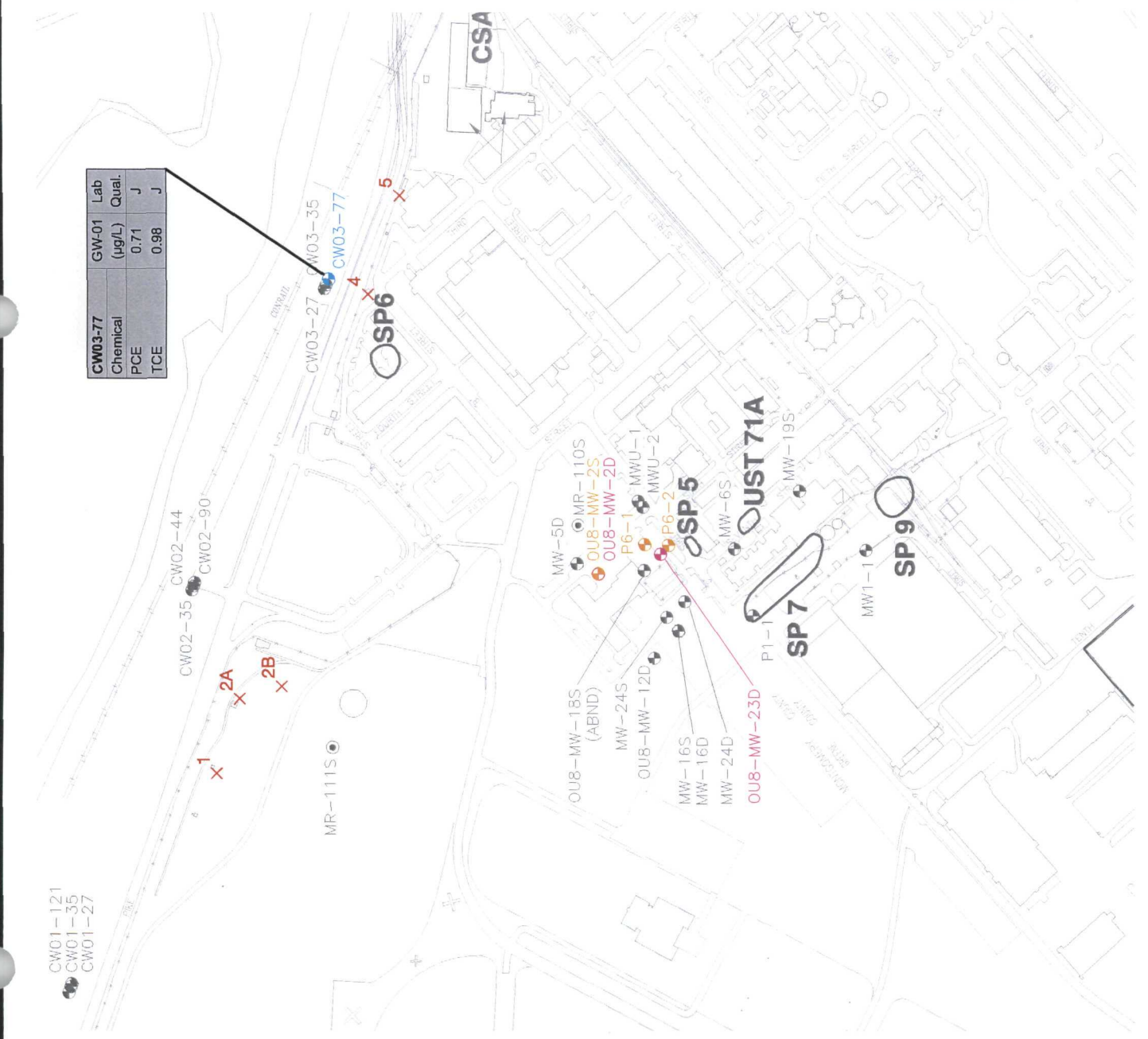
**Figure 6-6**  
**OU4 Groundwater**  
**Concentrations of VOCs:**  
**October 2004**

**Figure 6-7**  
**OU5 Groundwater**  
**Concentrations of VOCs:**  
**October 2004**



2/10/05	MC	2/10/05	2/2/05	MSN	2/2/05
DRAWING	CHECKED BY	APPROVED BY	BY		

2005 05-16.DWG  
 NUMBER  
 2/10/05

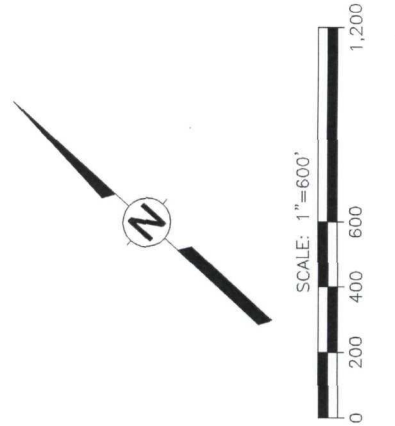
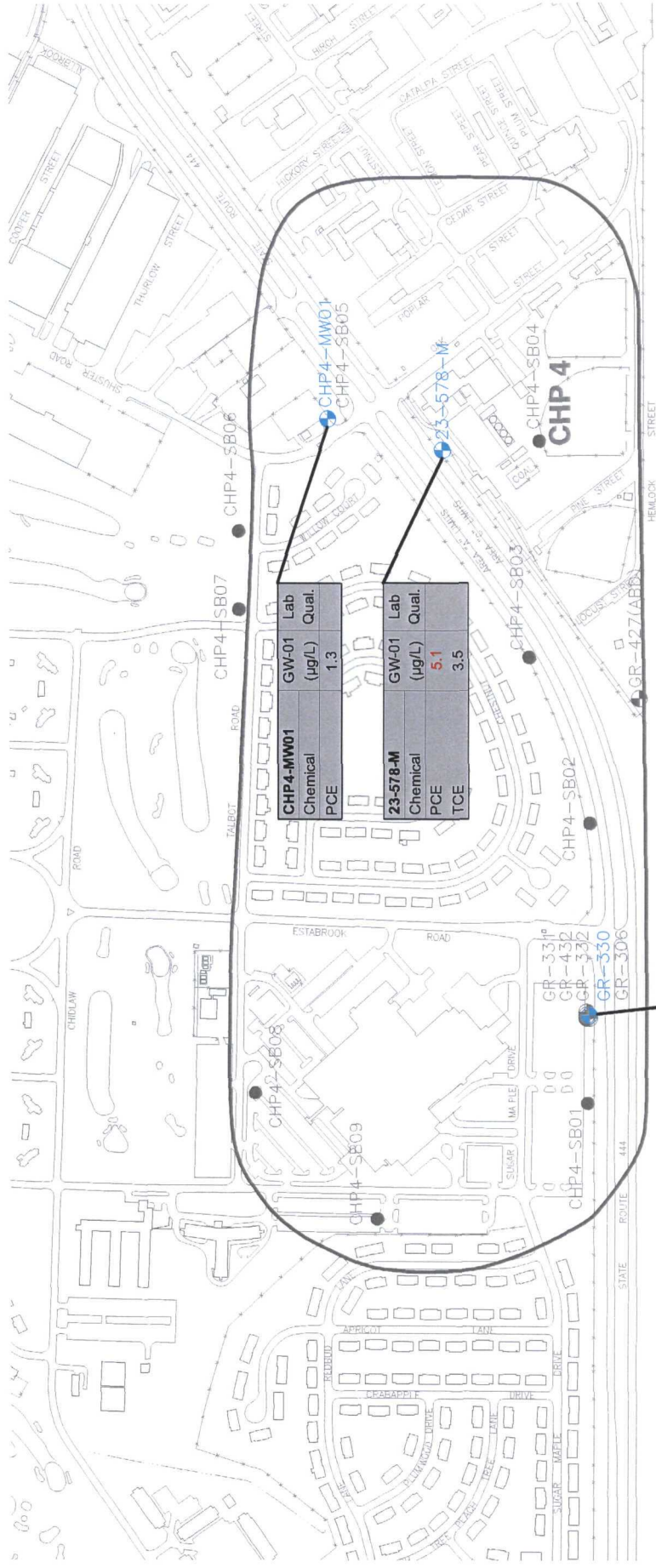


CW03-77	GW-01	Lab
Chemical	(µg/L)	Qual.
PCE	0.71	J
TCE	0.98	J



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**Figure 6-8**  
**OU8 Groundwater**  
**Concentrations of VOCs:**  
**October 2004**



- LEGEND**
- Monitoring Wells with Semi-Annual VOCs Analysis
  - VOC Concentration (RED = >MCL)
  - Diluted Result
  - IRP Sites (Locations Approximate)

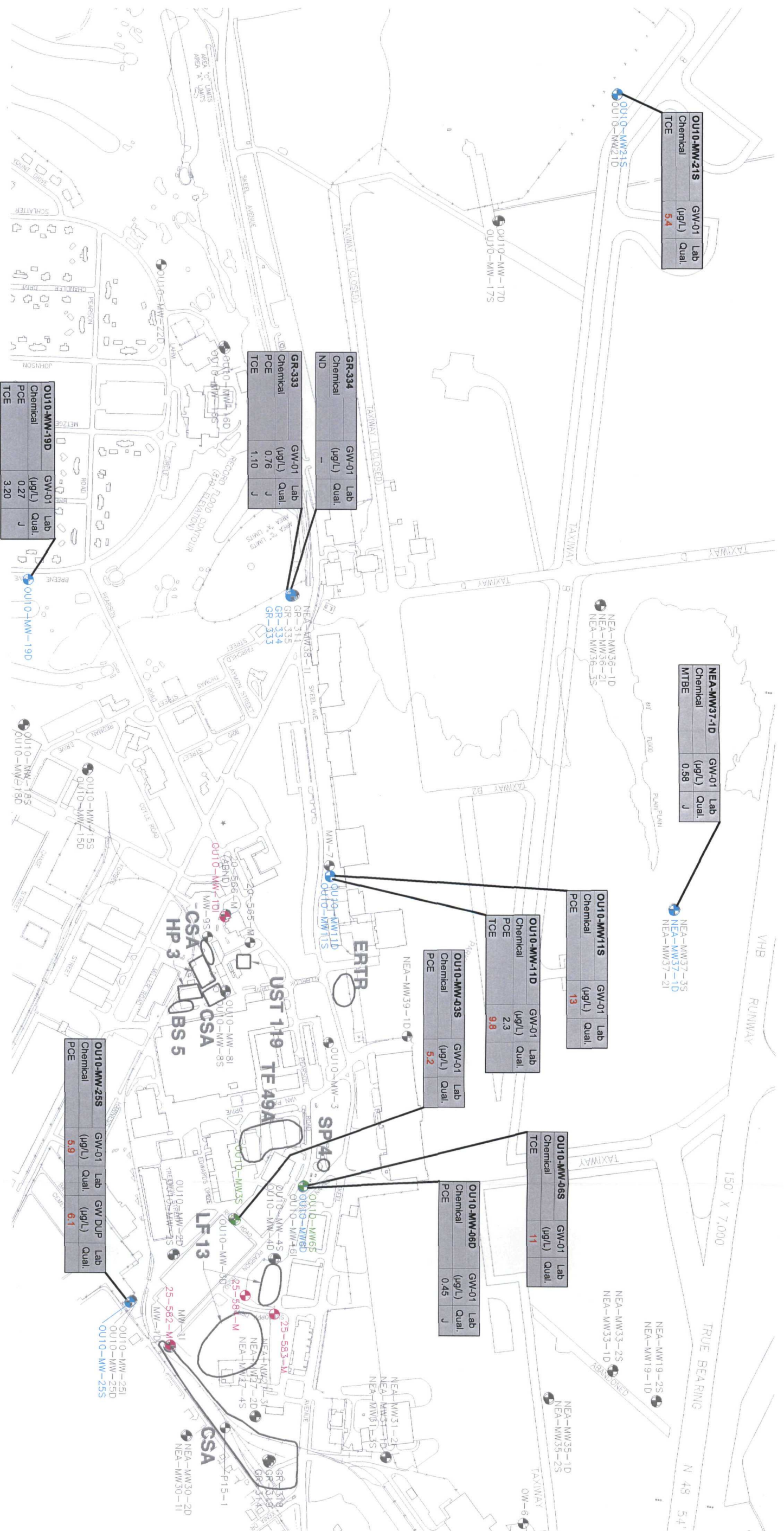
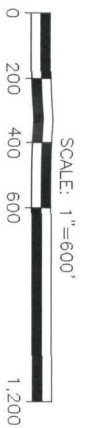
**Shaw**  
Environmental, Inc.

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AIR FORCE BASE,  
OHIO

**Figure 6-9**  
**Central Heating Plant 4**  
**Groundwater Concentrations of VOCs:**  
**October 2004**



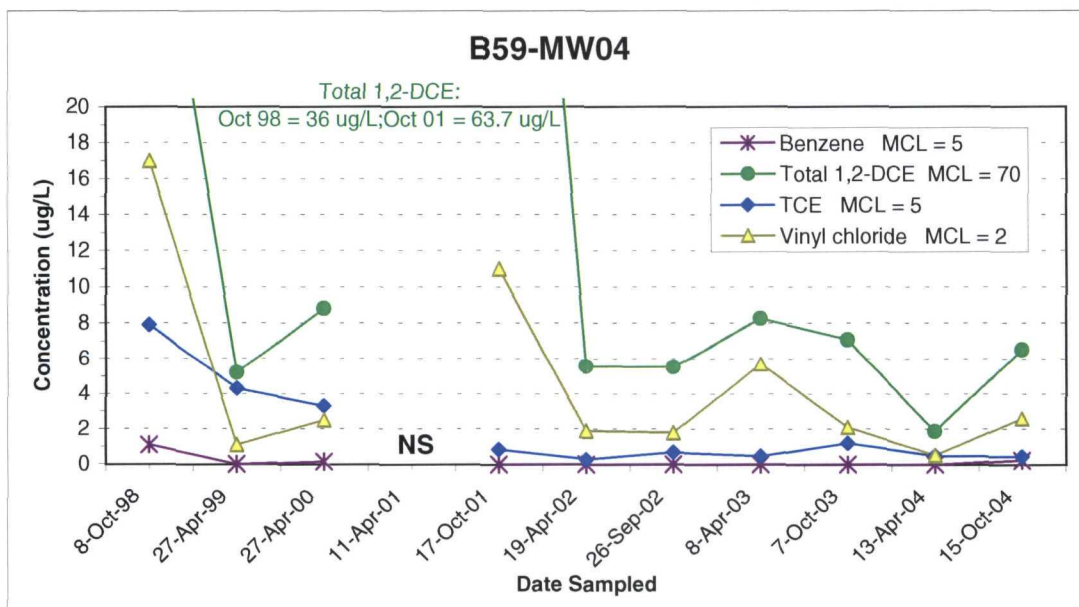
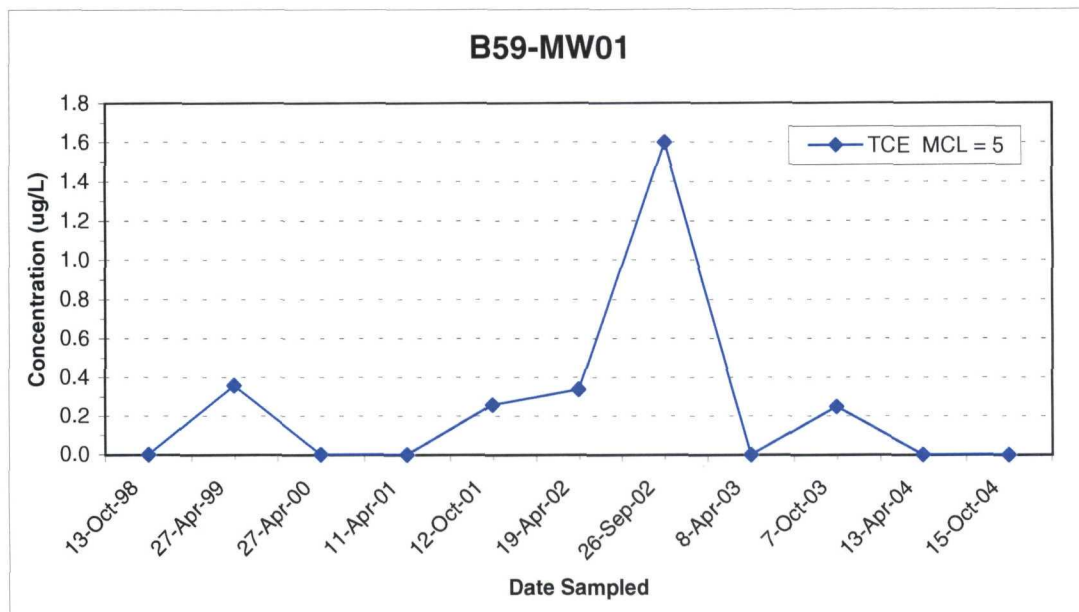
- LEGEND**
- MONITORING WELLS WITH ANNUAL METALS & SEMI-ANNUAL VOCs ANALYSIS
  - MONITORING WELLS WITH ANNUAL METALS ANALYSIS
  - MONITORING WELLS WITH SEMI-ANNUAL VOCs ANALYSIS
  - 5.2 VOC CONCENTRATION (RED=>MCL)
  - J ESTIMATED RESULT
  - IRP SITES (LOCATIONS APPROXIMATE)



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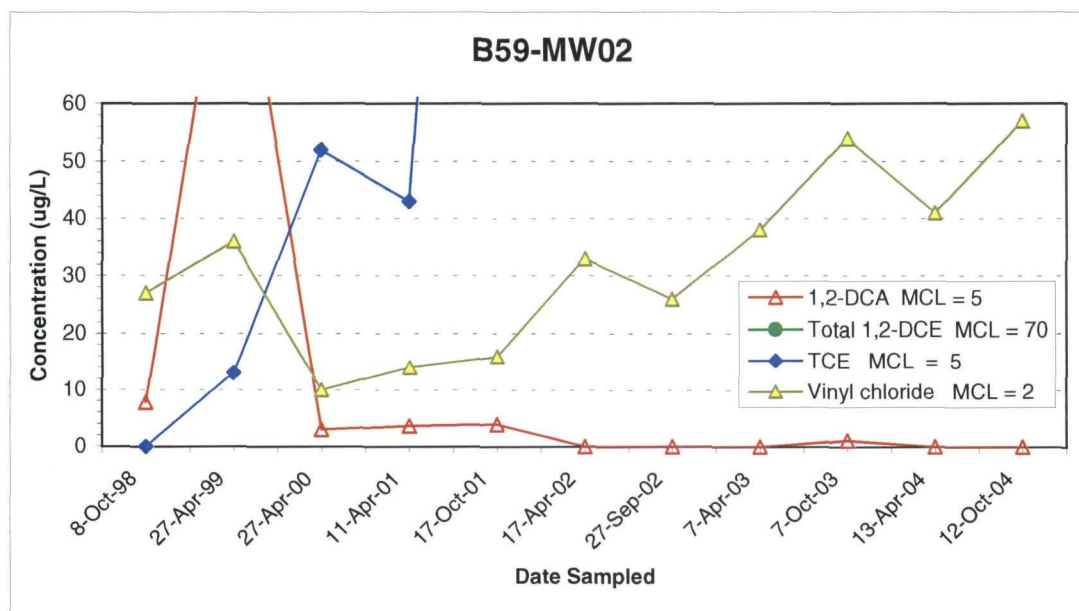
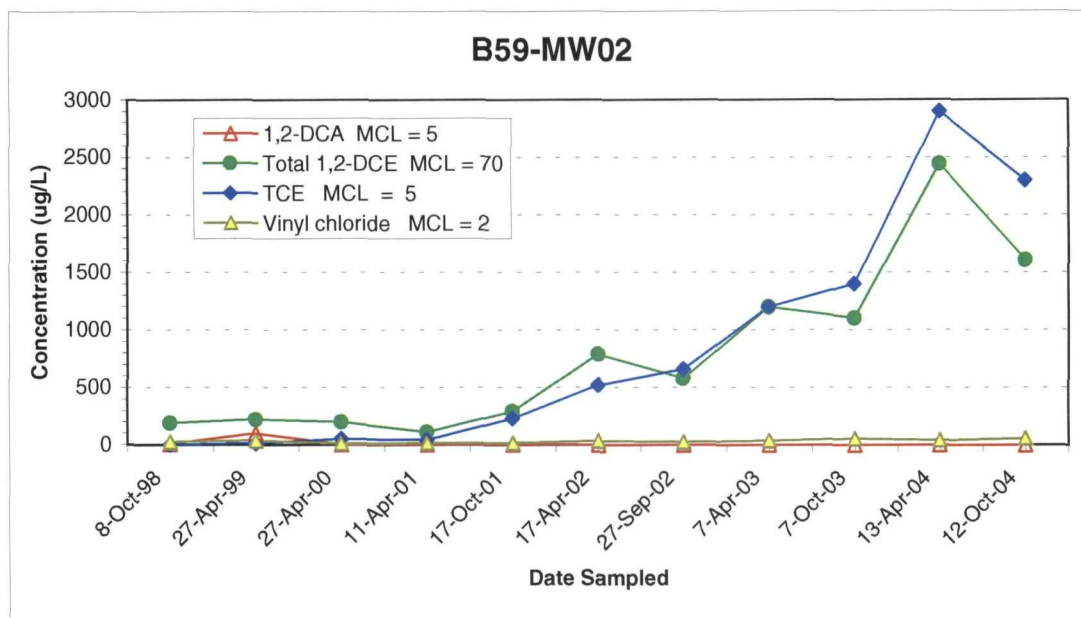
Figure 6-10  
OU10 Groundwater  
Concentrations of VOCs:  
October 2004

**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**Building 59: Wells B59-MW01 and B59-MW04**  
WPAFB - LTM Program



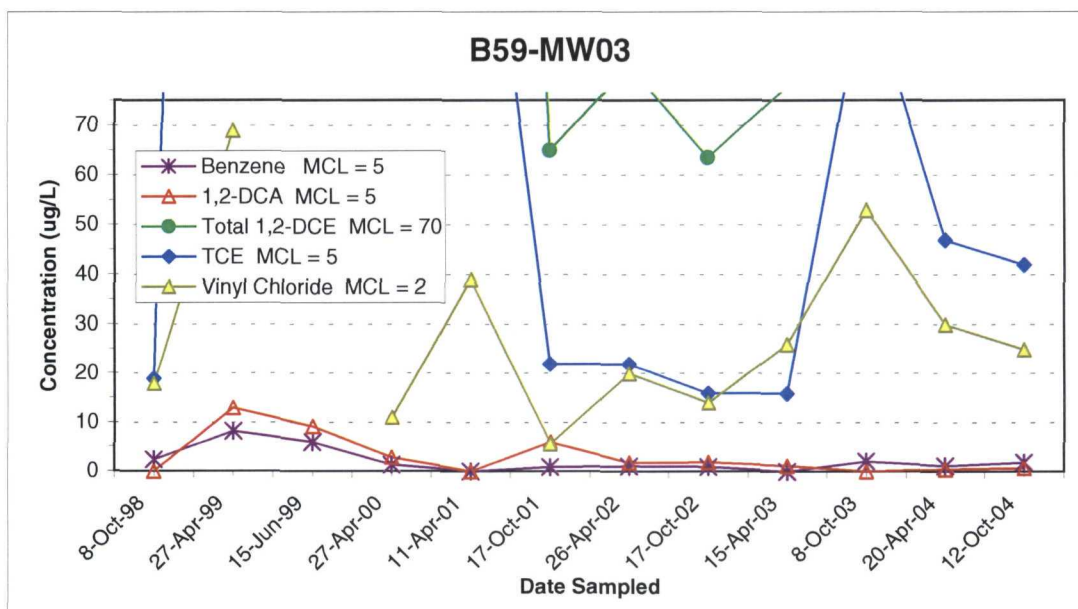
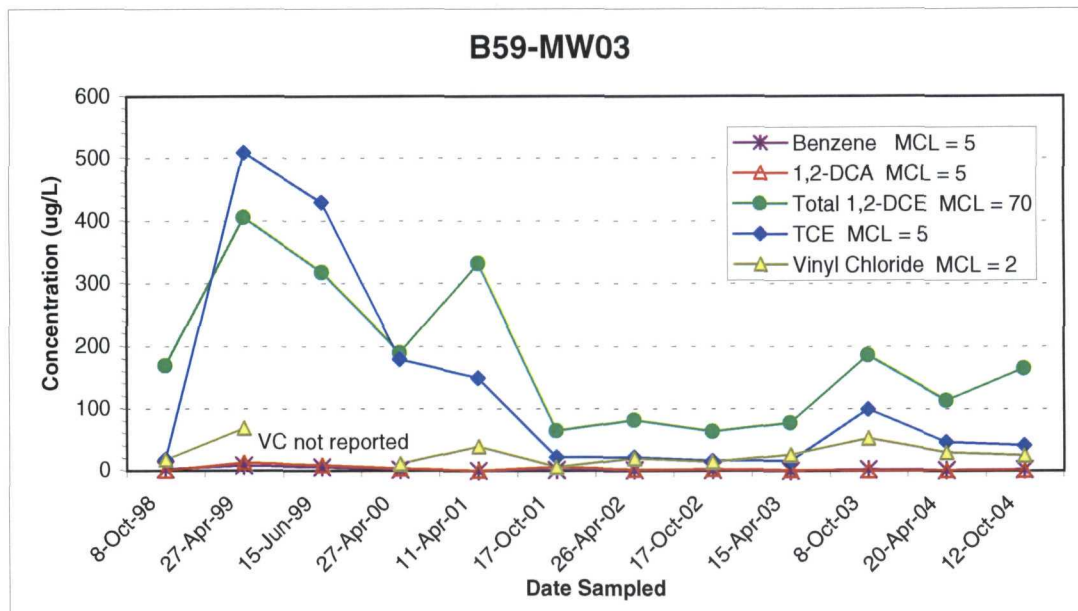


**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**Building 59: Well B59-MW02**  
WPAFB - LTM Program



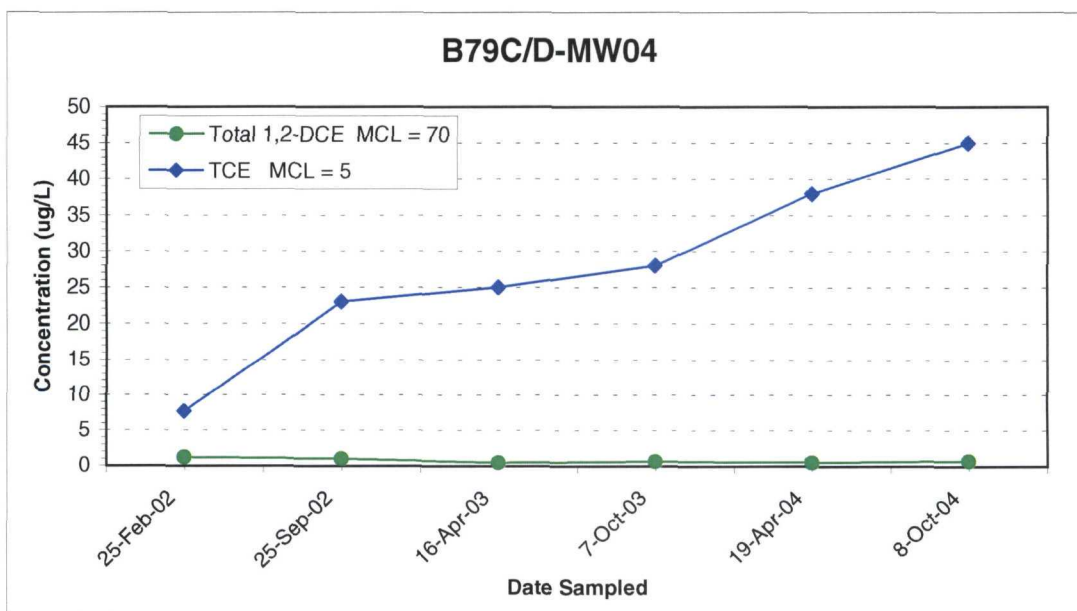
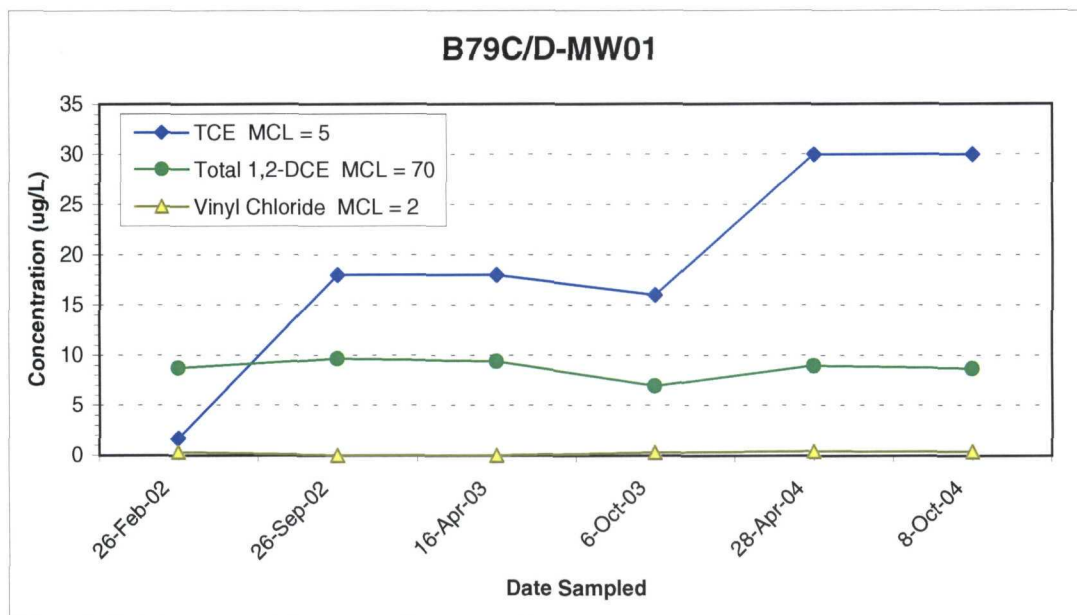
VOCs concentrations are plotted on the bottom graph, at a larger scale to show the variations in concentrations.

**LONG-TERM MONITORING GRAPHS:  
Chemicals of Primary Concern  
Building 59: Well B59-MW03  
WPAFB - LTM Program**

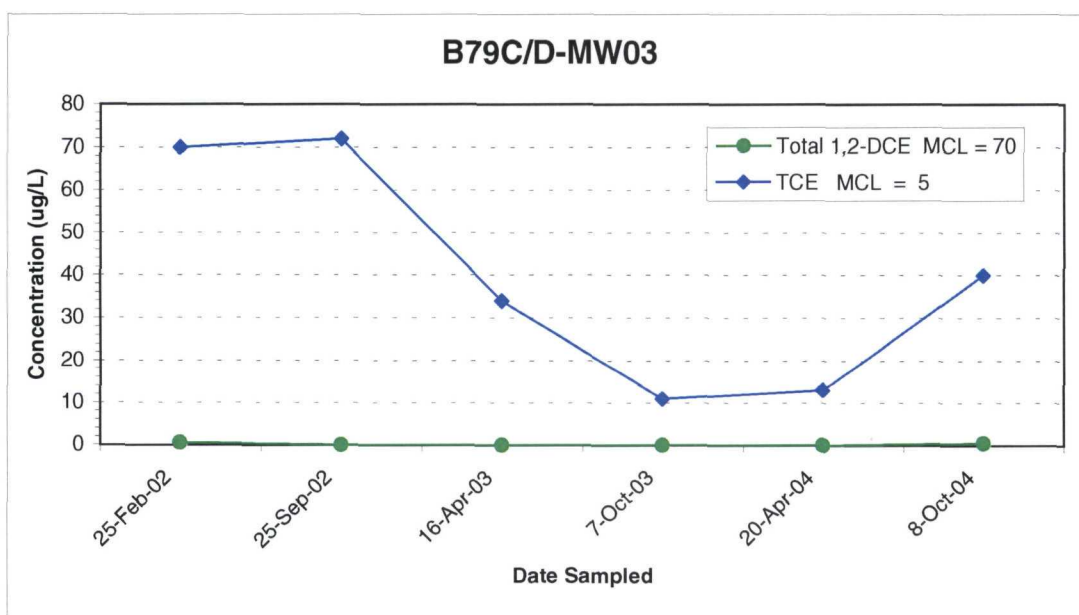
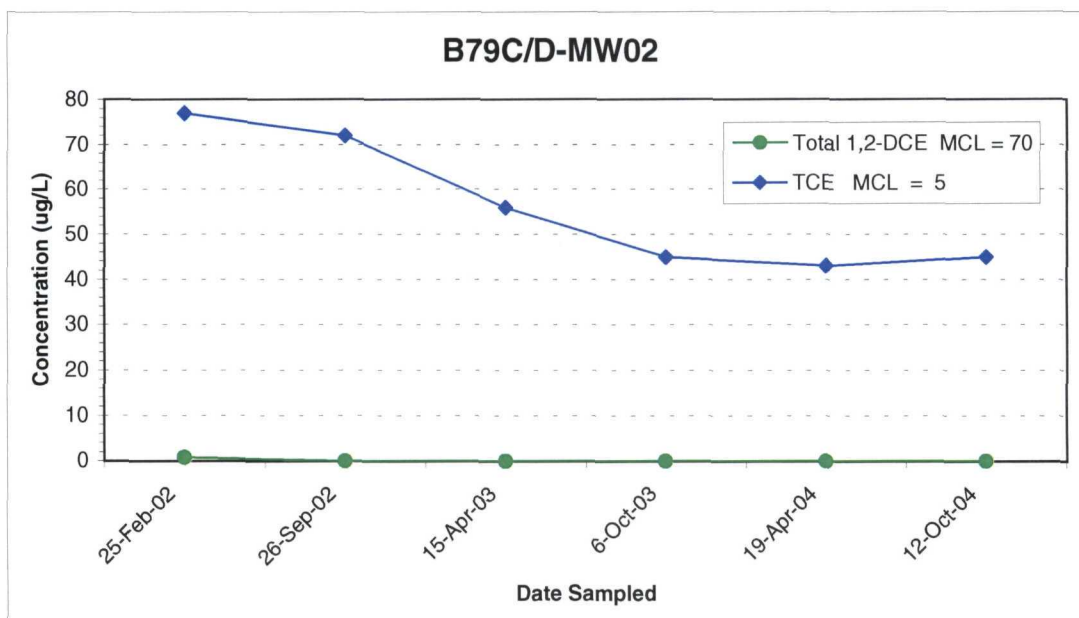


VOCs concentrations are plotted on the bottom graph, at a larger scale to show the variations in concentrations.

**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**Building 79: Wells B79C/D-MW01 and B79C/D-MW04**  
WPAFB - LTM Program

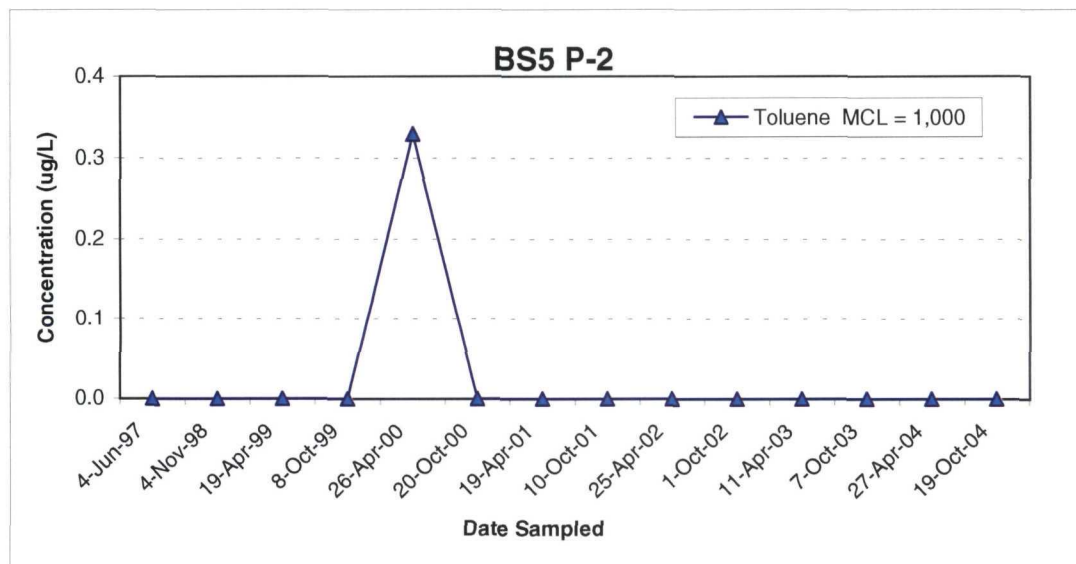
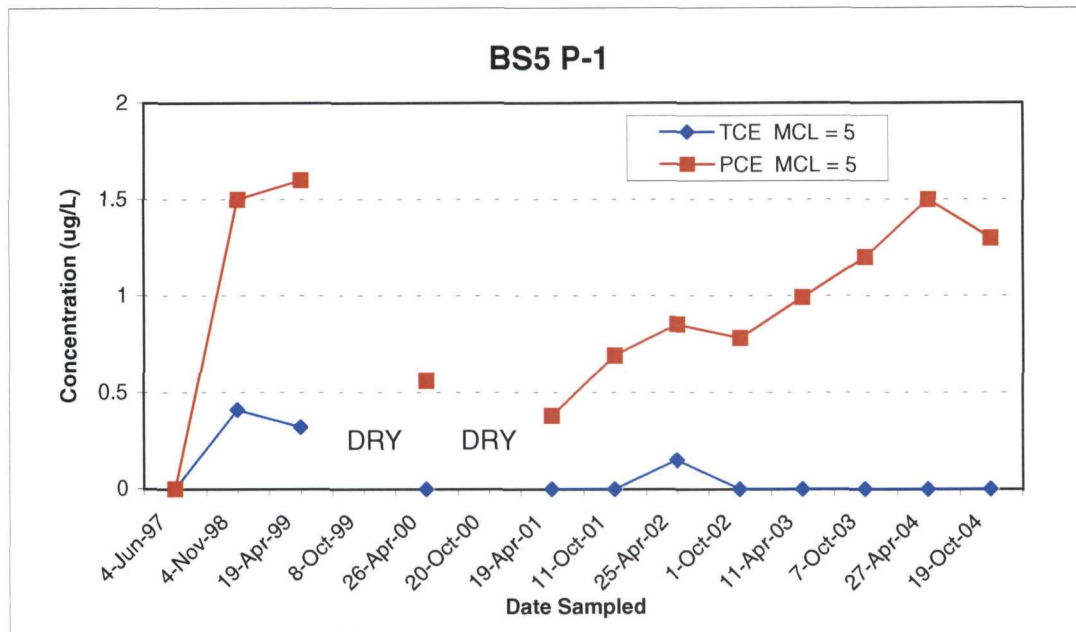


**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**Building 79: Wells B79C/D-MW02 and B79C/D-MW03**  
WPAFB - LTM Program

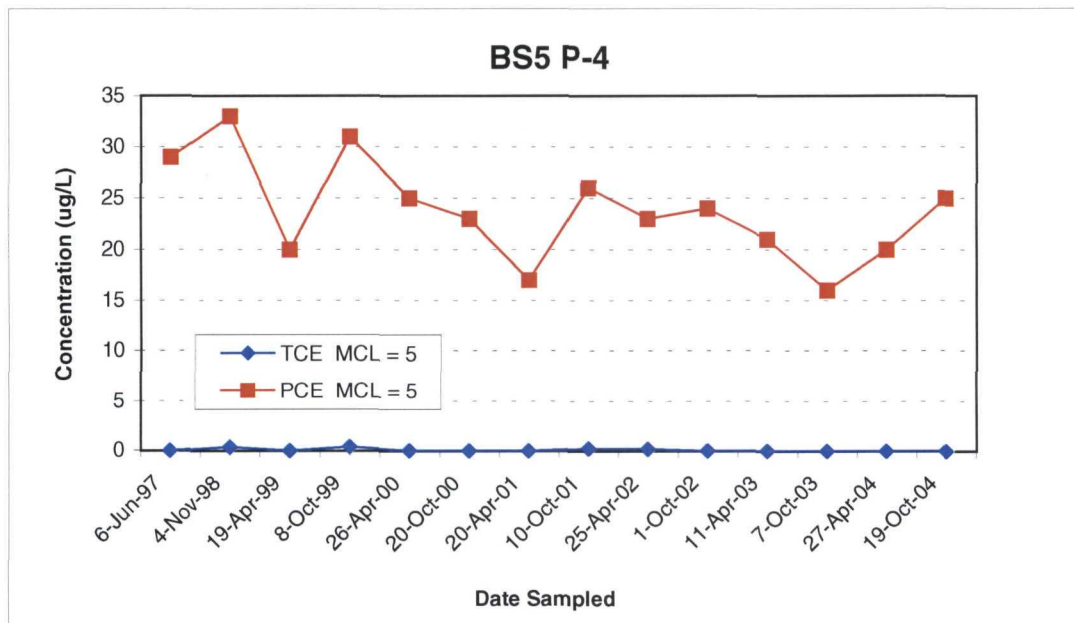
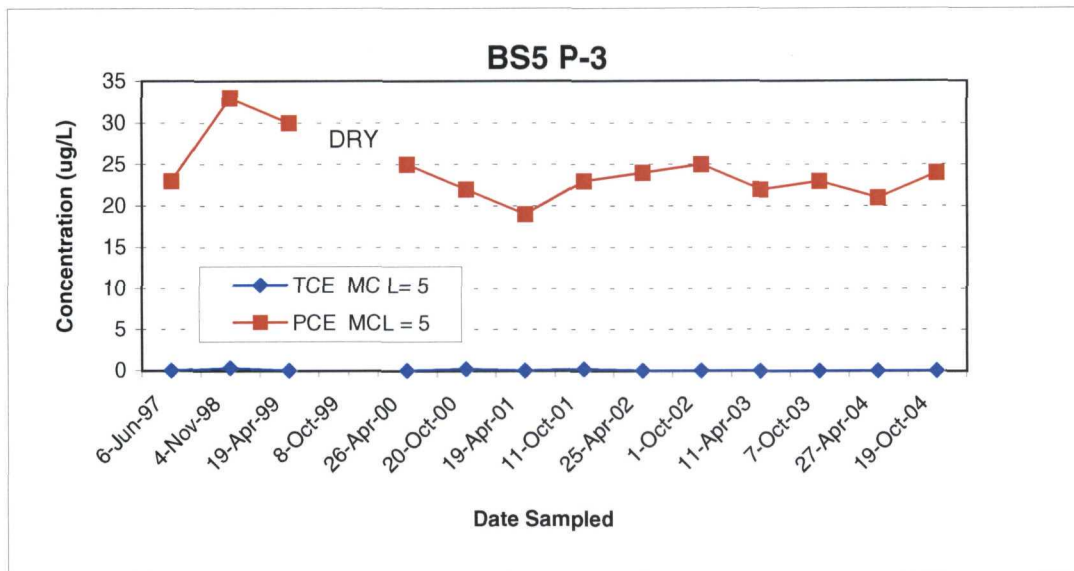




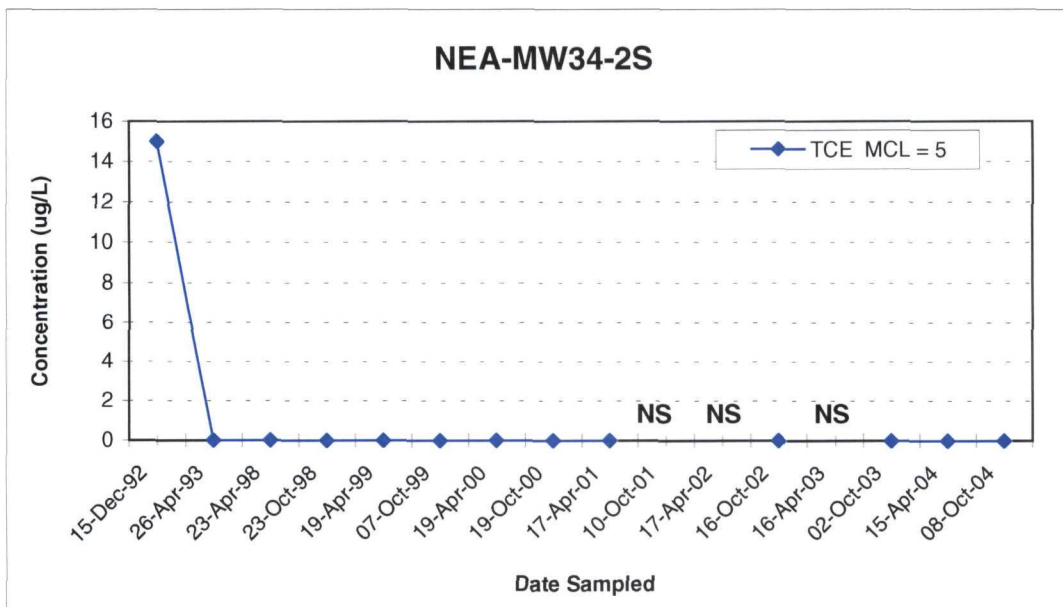
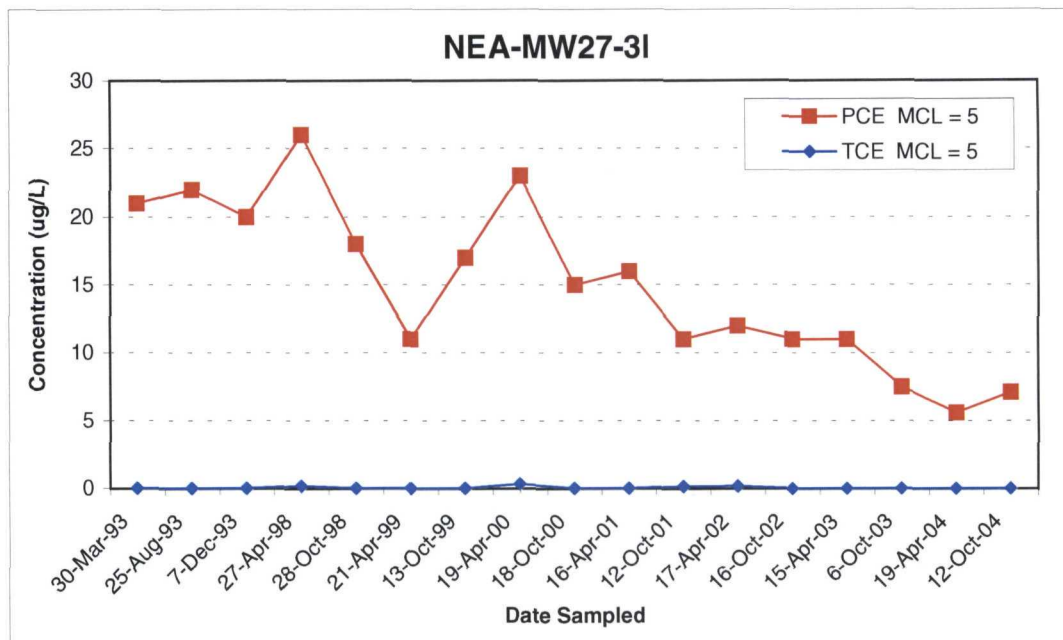
**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**Burial Site 5: Wells BS5 P-1 and BS5 P-2**  
WPAFB - LTM Program



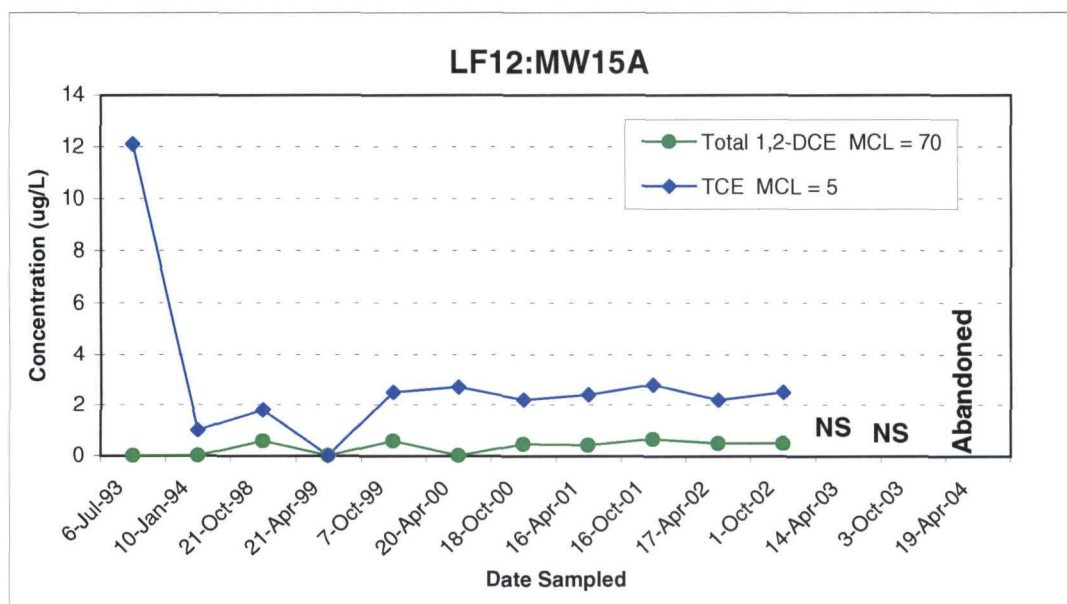
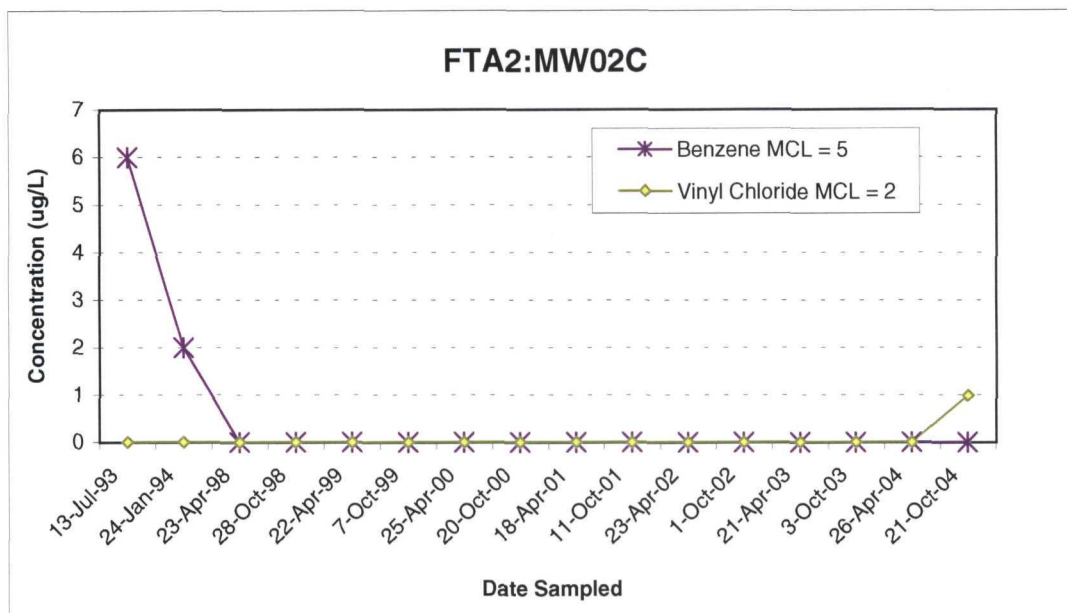
**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**Burial Site 5: Wells BS5 P-3 and BS5 P-4**  
WPAFB - LTM Program



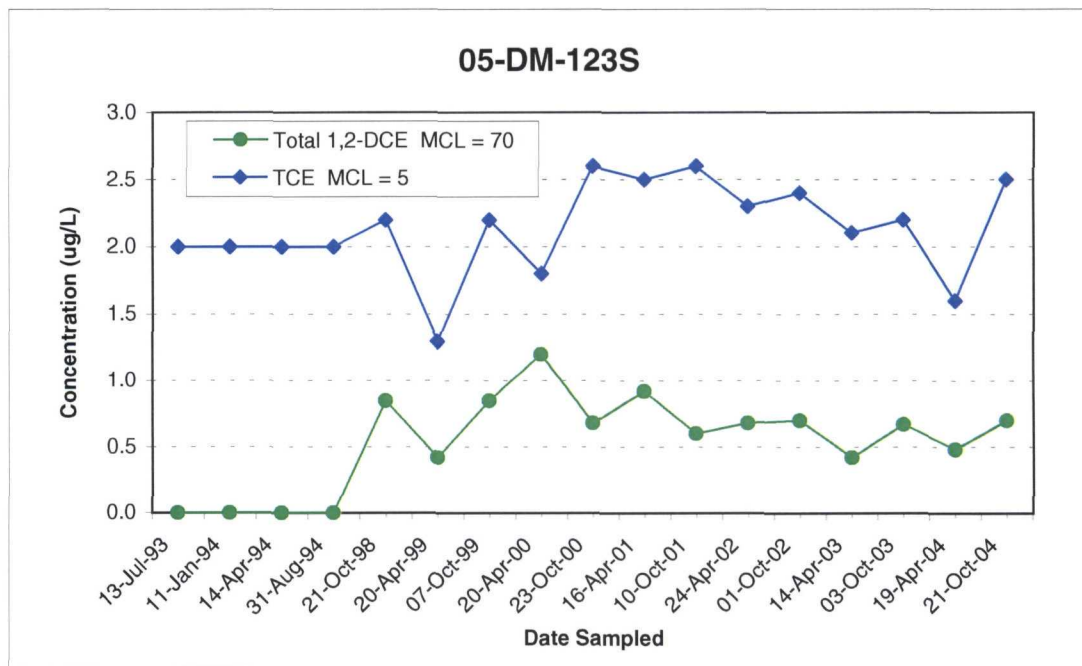
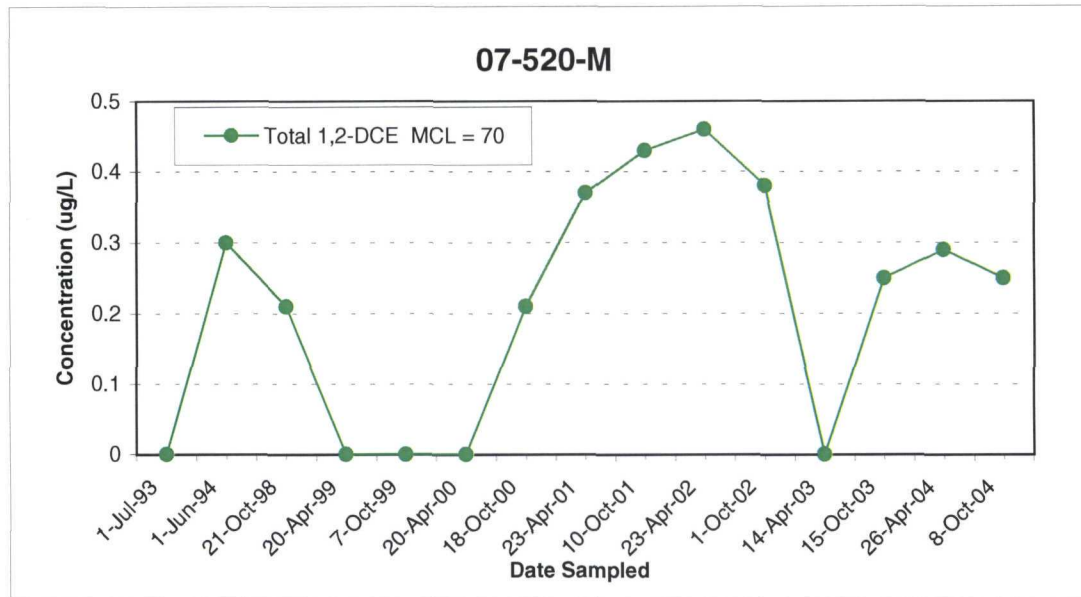
**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU2: Wells NEA-MW27-3I and NEA-MW34-2S**  
WPAFB - LTM Program



**LONG-TERM MONITORING GRAPHS:  
Chemicals of Primary Concern  
OU3: Wells FTA2:MW02C and LF12:MW15A  
WPAFB - LTM Program**

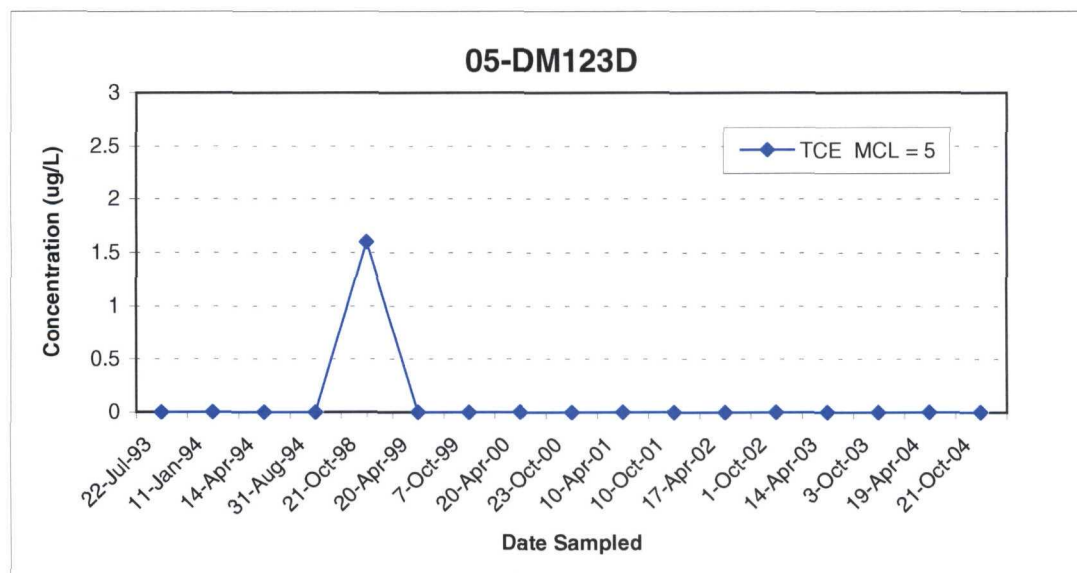
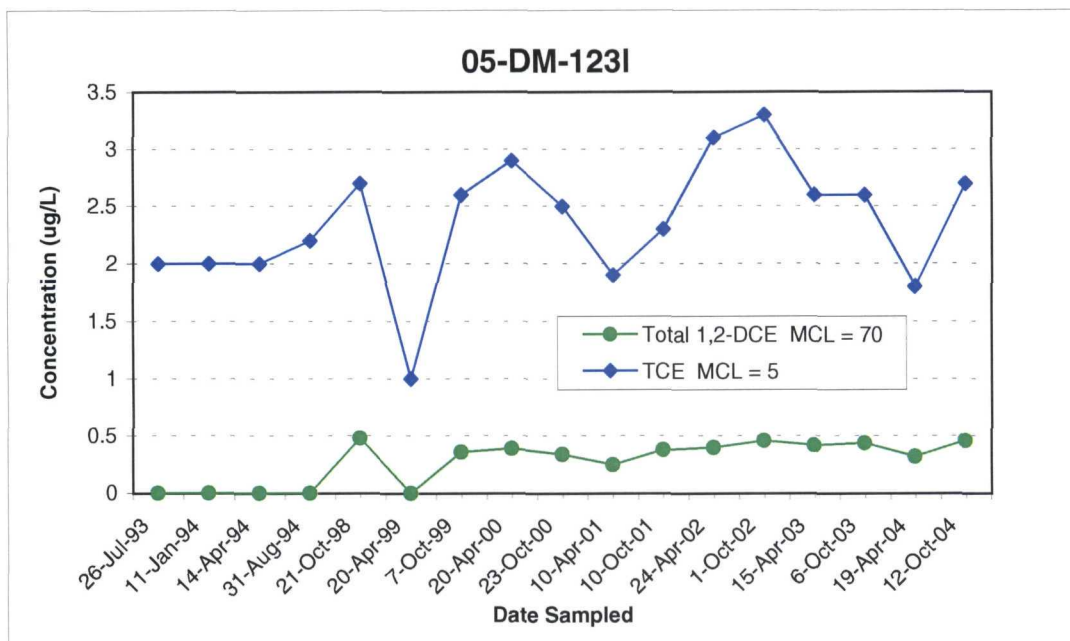


**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU3: Wells 07-520-M and 05-DM-123S**  
WPAFB - LTM Program



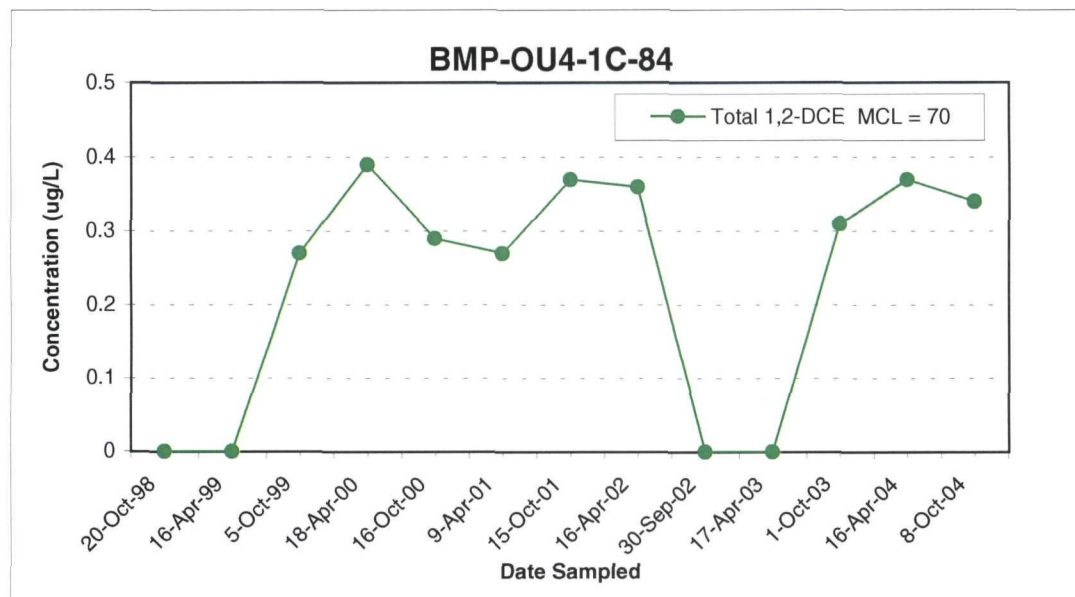
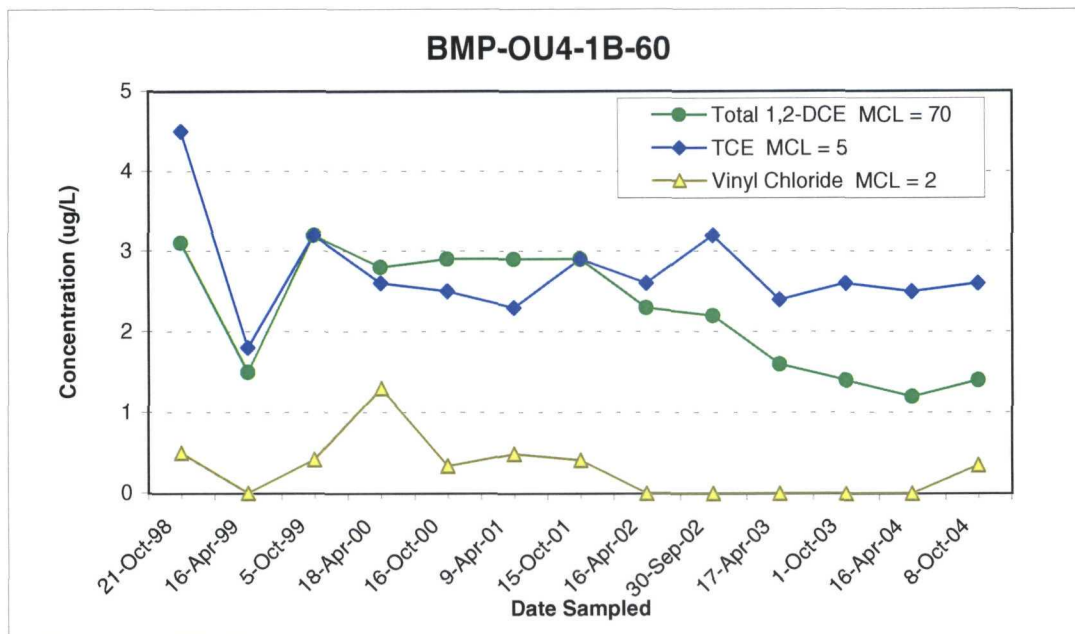


**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU3: Wells 05-DM-123I and 05-DM-123D**  
WPAFB - LTM Program

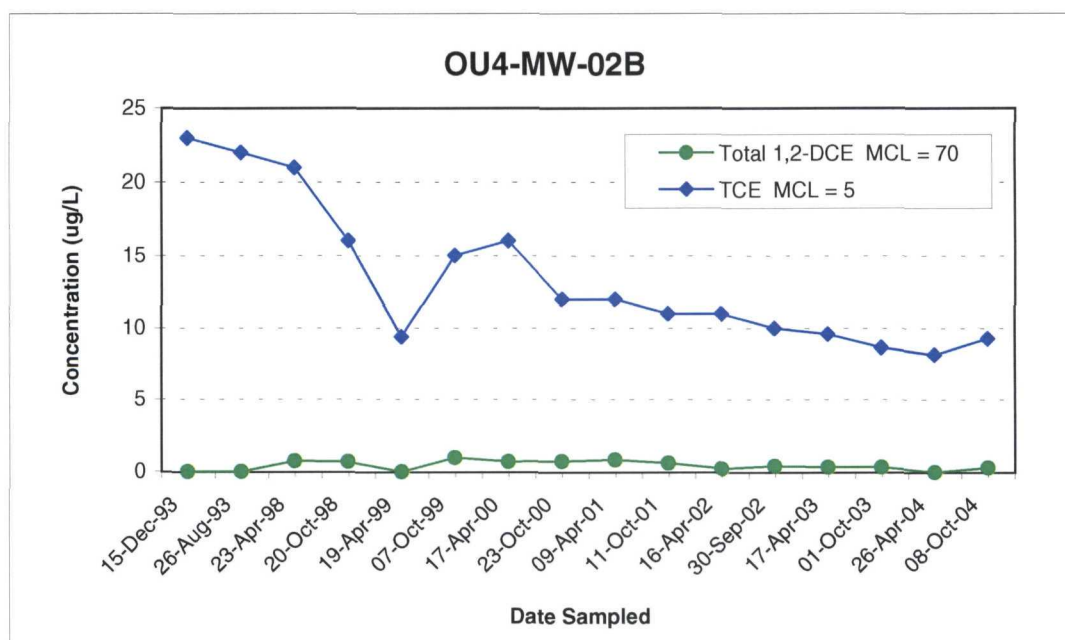
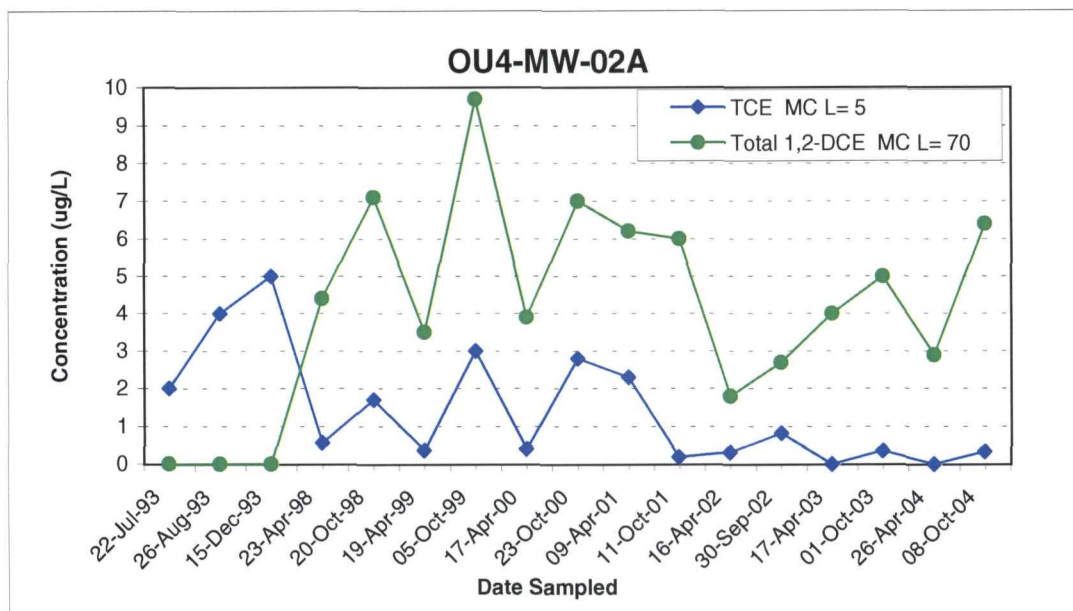




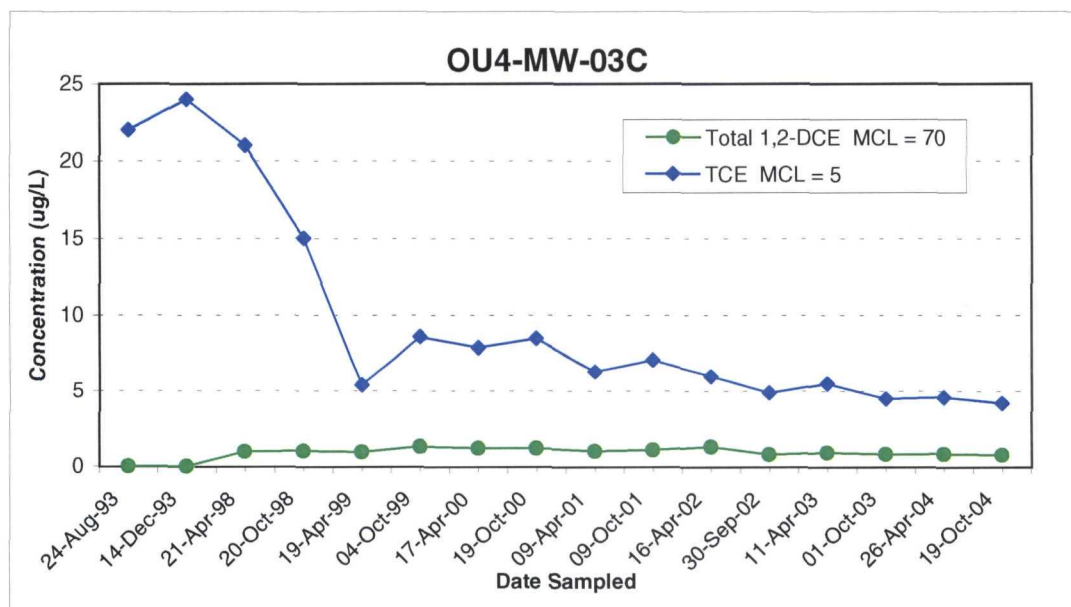
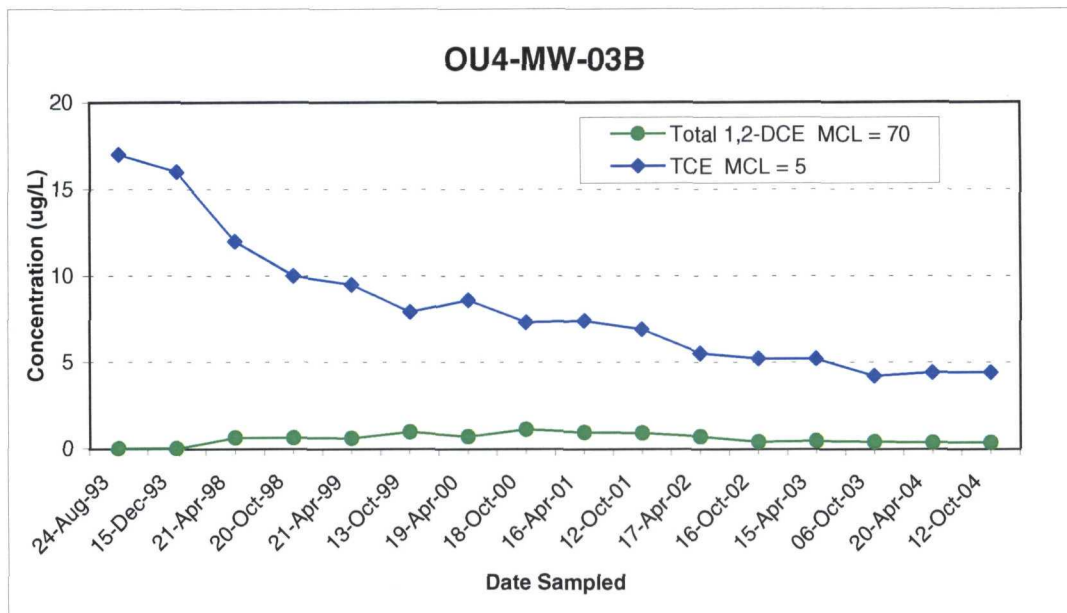
**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU4: Wells BMP-OU4-1B-60 and BMP-OU4-1C-84**  
WPAFB - LTM Program



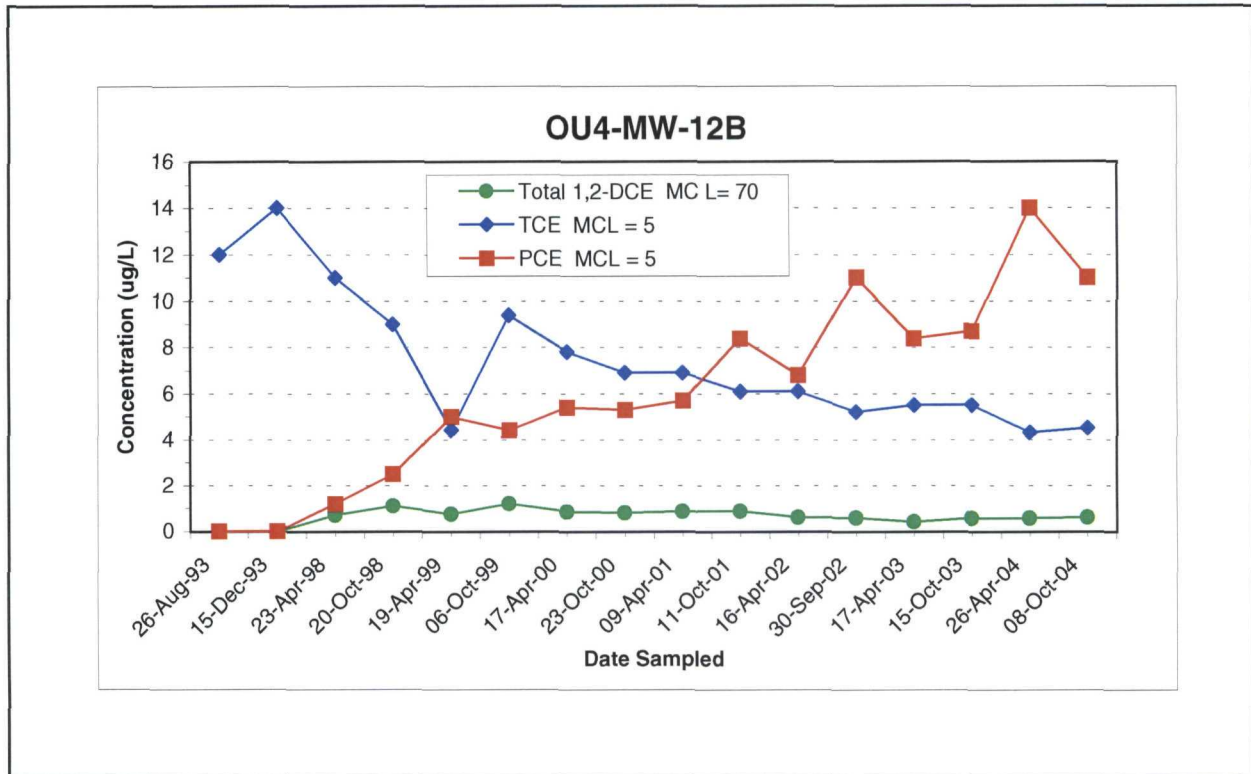
**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU4: Wells OU4-MW-02A and OU4-MW-02B**  
WPAFB - LTM Program



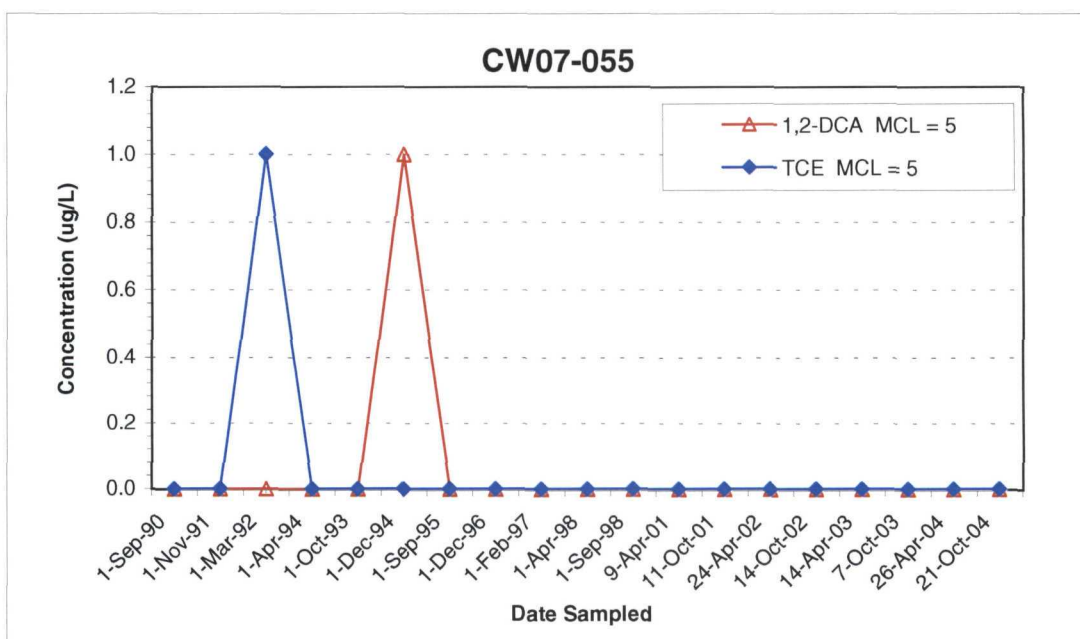
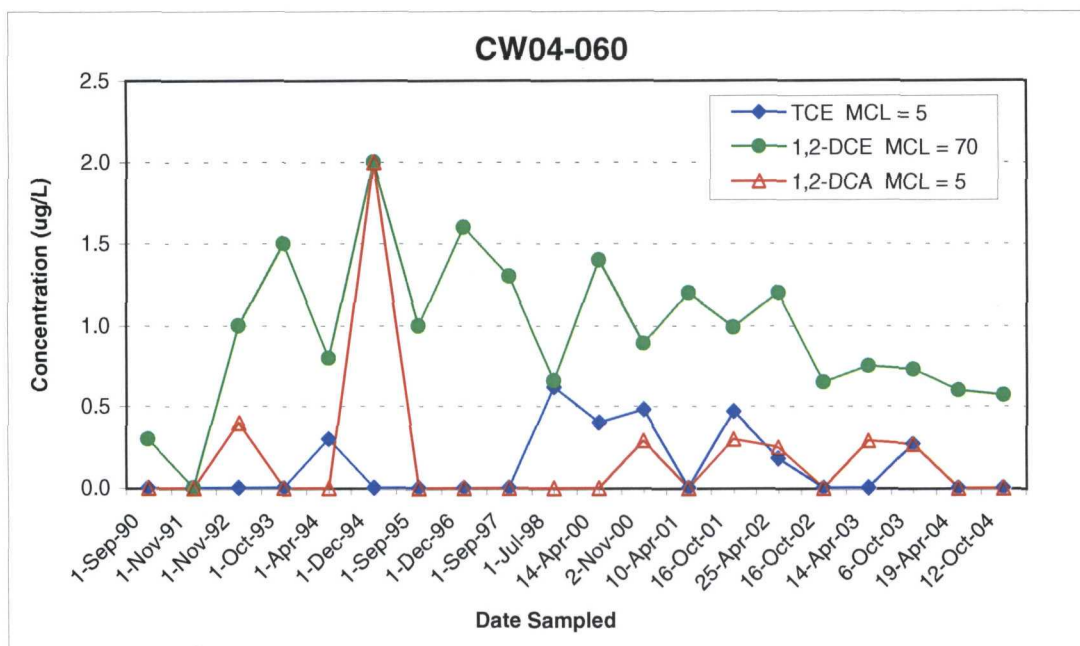
**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU4: Wells OU4-MW-03B and OU4-MW-03C**  
WPAFB - LTM Program



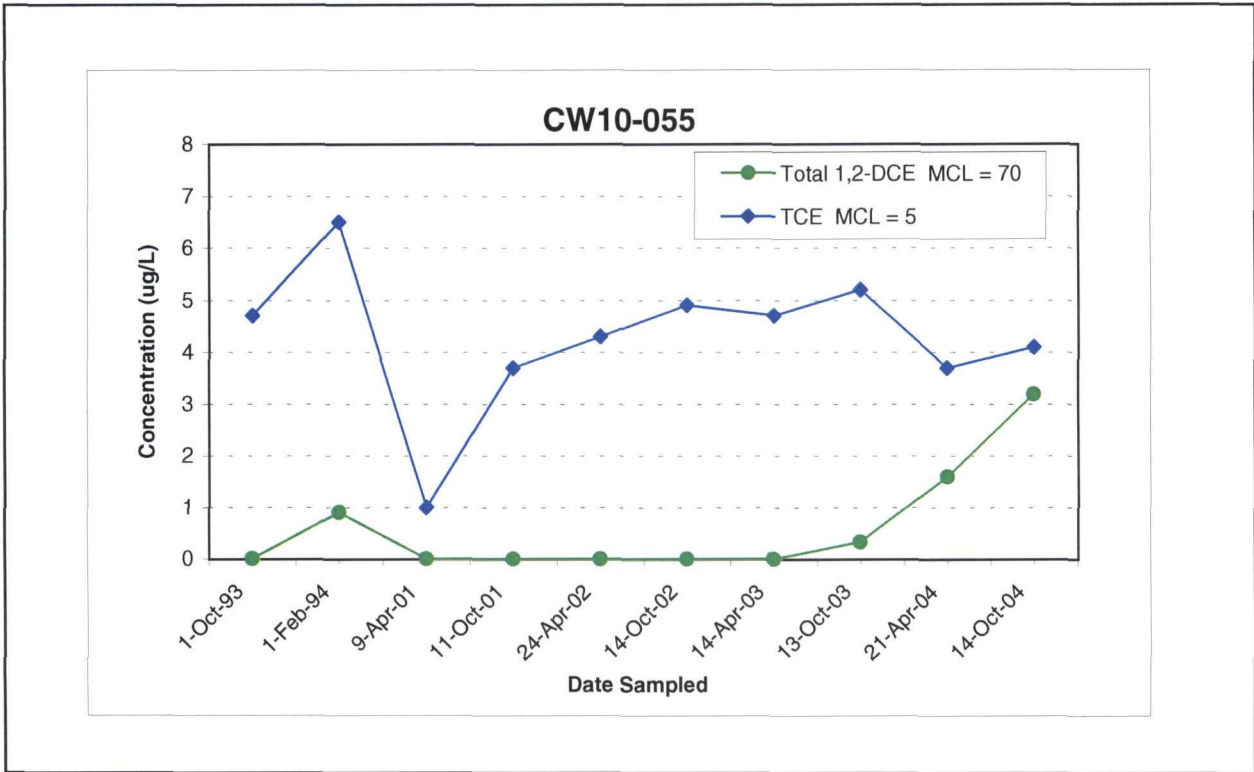
LONG-TERM MONITORING GRAPHS:  
Chemicals of Primary Concern  
OU4: Well OU4-MW-12B  
WPAFB - LTM Program



**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU5 (FAA-A): Wells CW04-060 and CW07-055**  
WPAFB - LTM Program

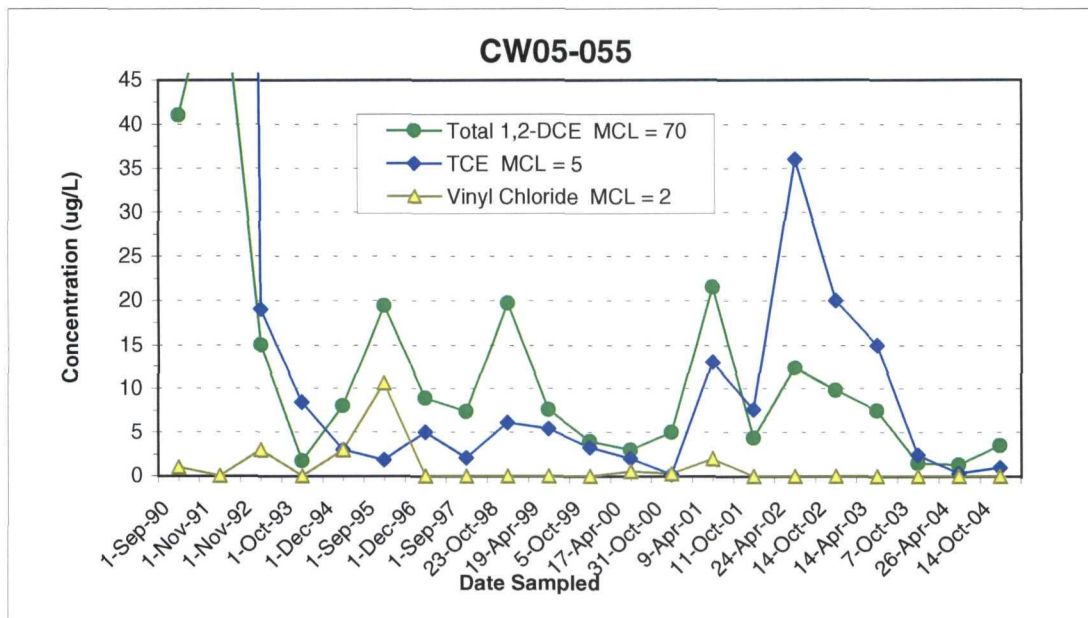
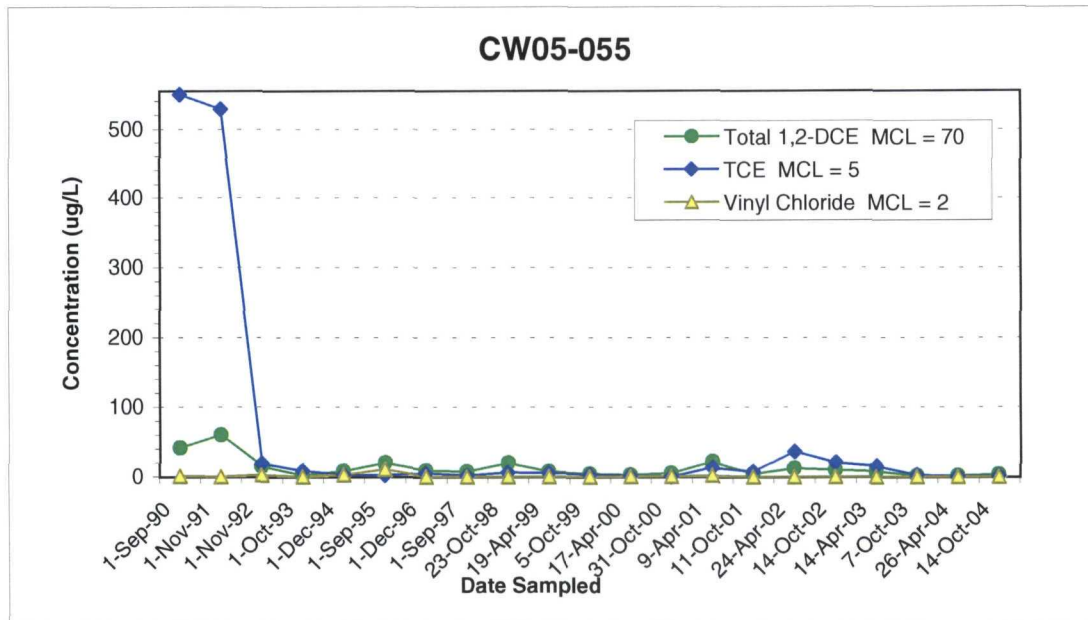


**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU5 (FAA-A): Well CW10-055**  
WPAFB - LTM Program



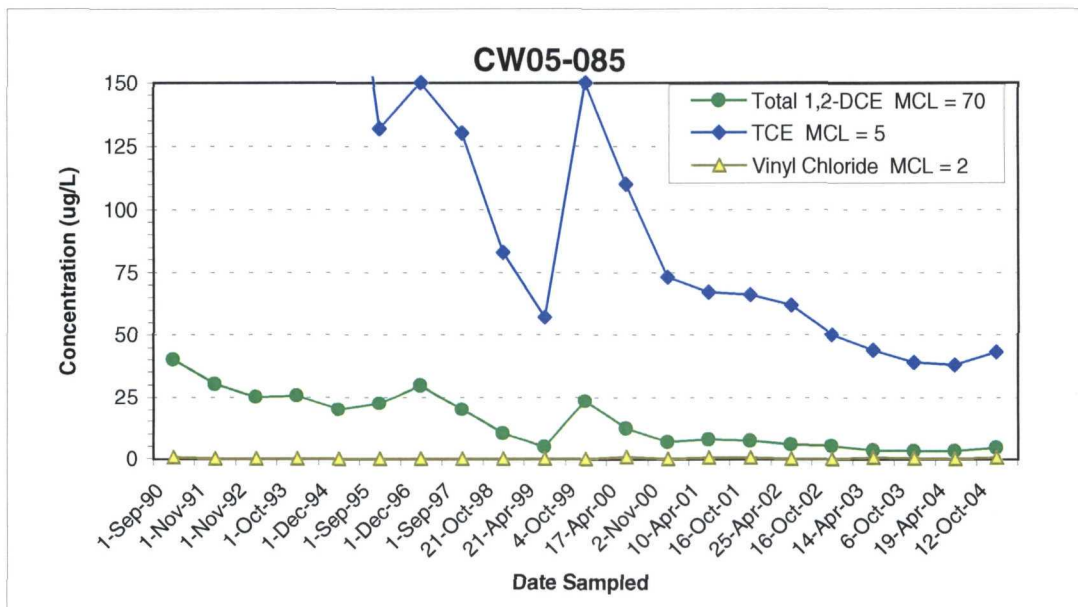
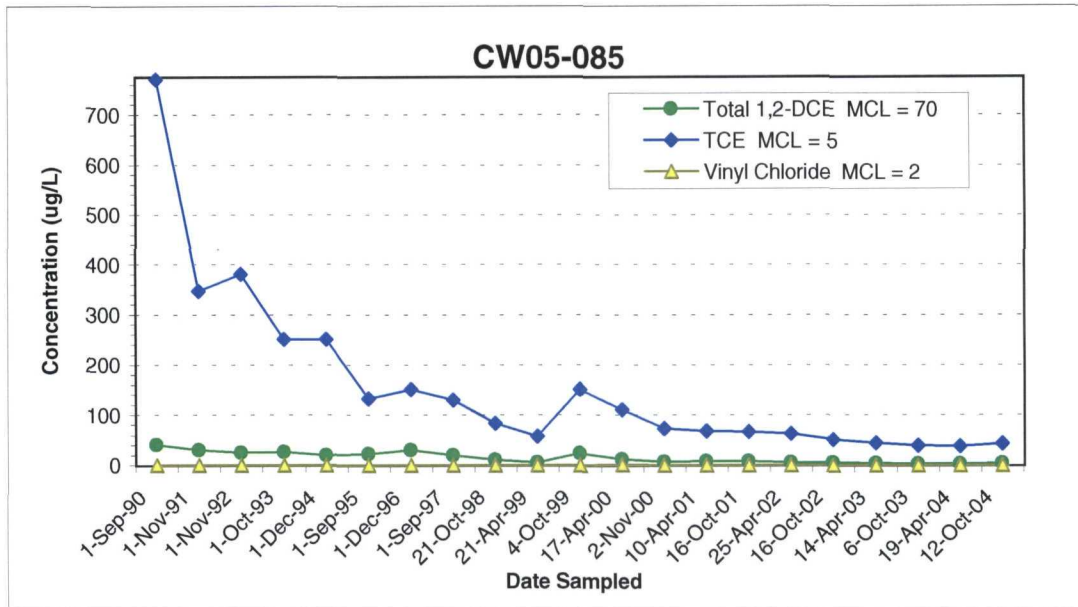


**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU5 (FAA-A): Well CW05-055**  
WPAFB - LTM Program



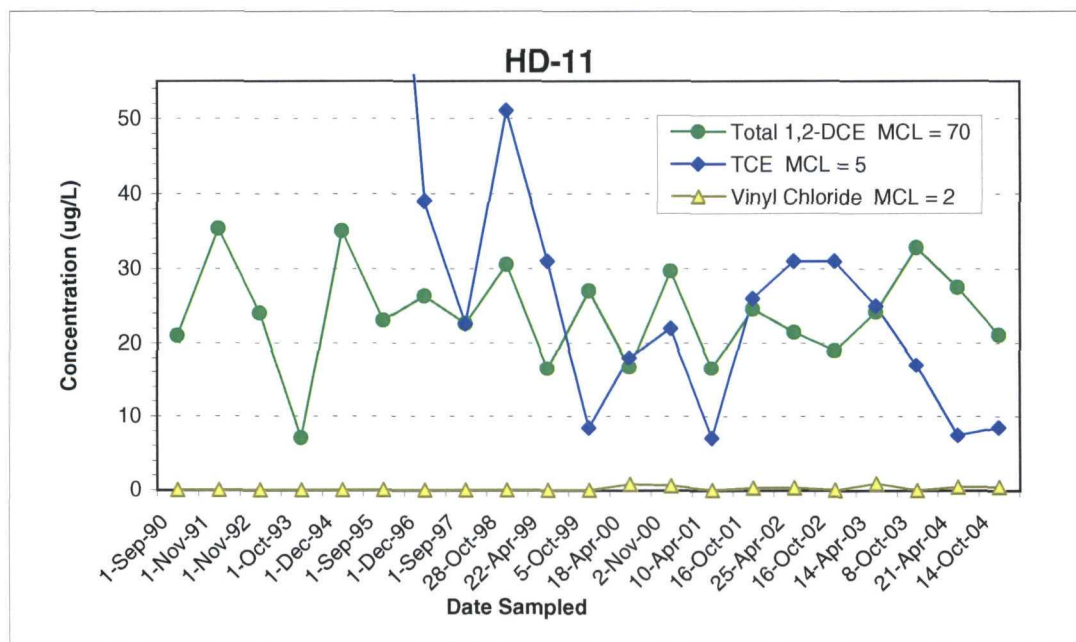
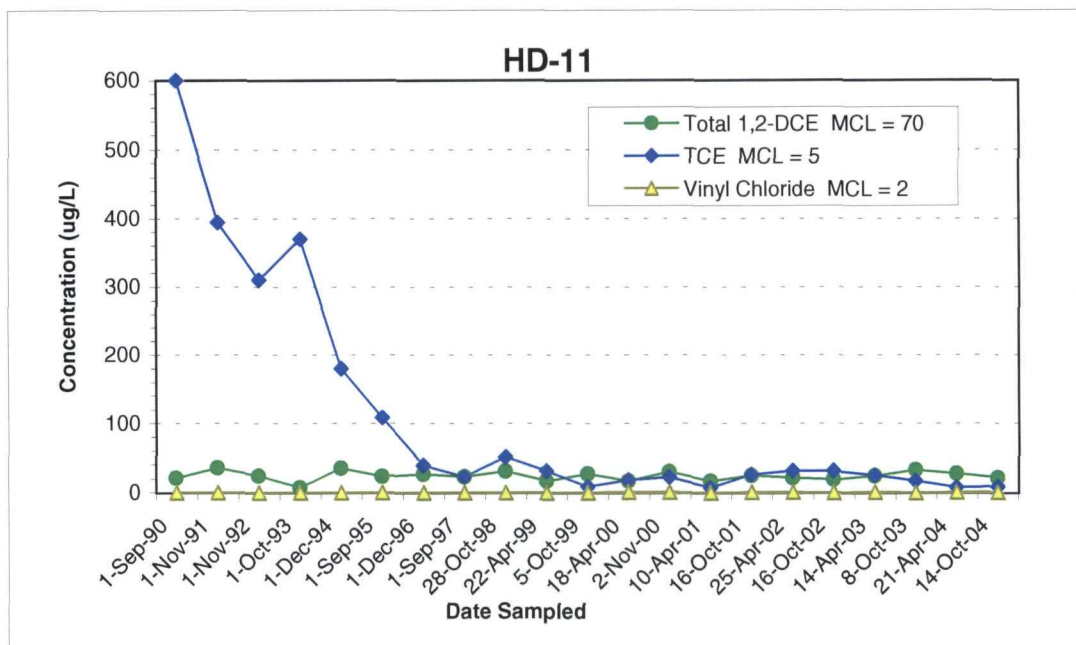
VOCs concentrations are plotted on the bottom graph, at a larger scale to show the variations in concentrations.

**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU5 (FAA-A): Well CW05-085**  
WPAFB - LTM Program



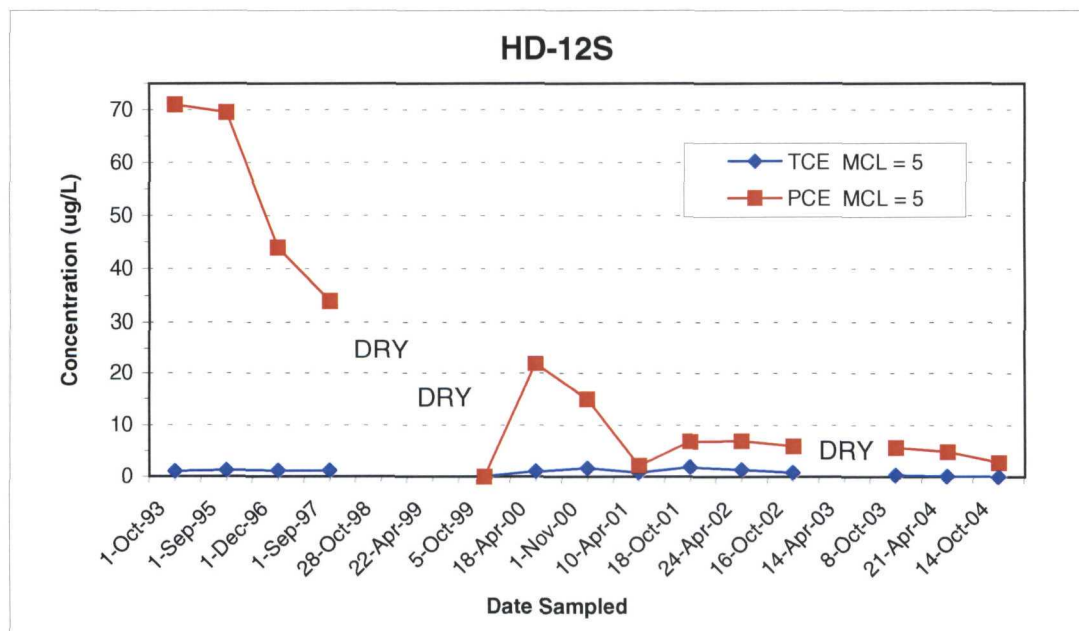
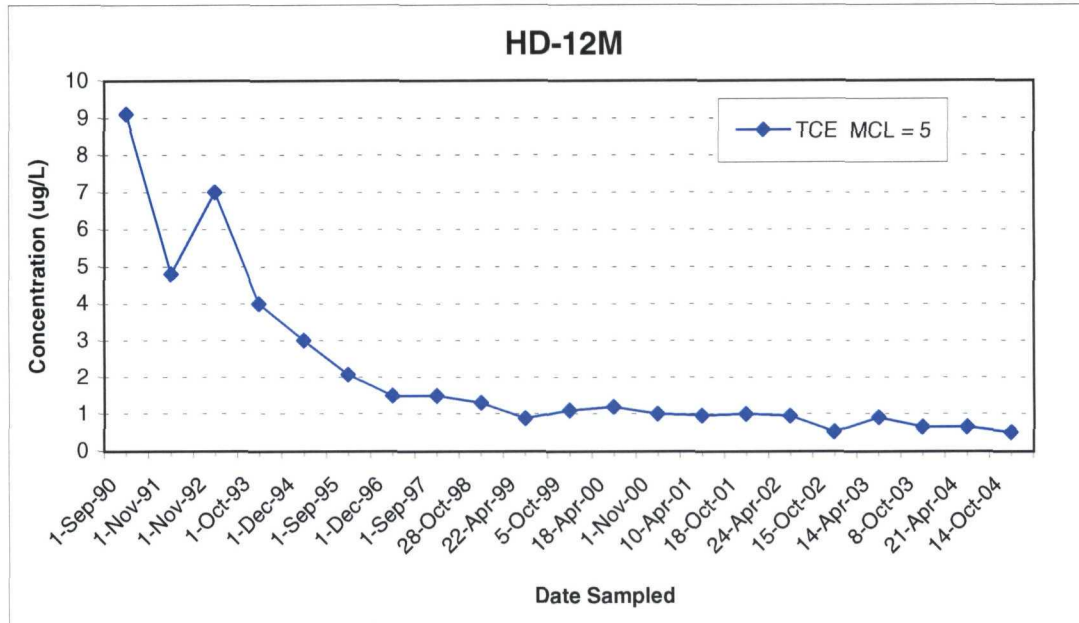
VOCs concentrations are plotted on the bottom graph, at a larger scale to show the variations in concentrations.

**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU5 (FAA-A): Well HD-11**  
WPAFB - LTM Program



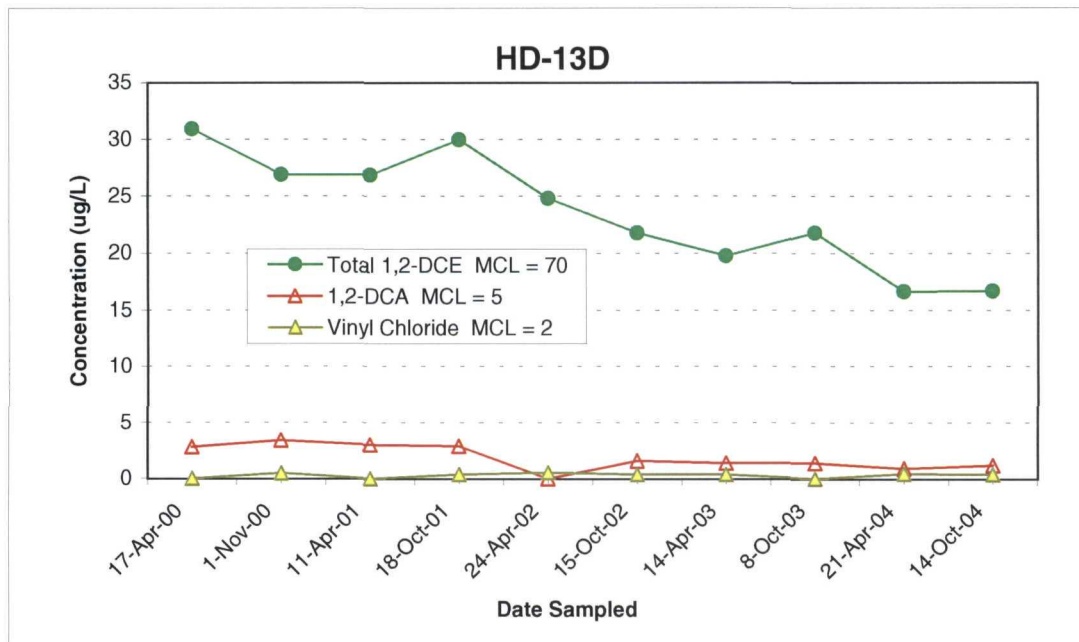
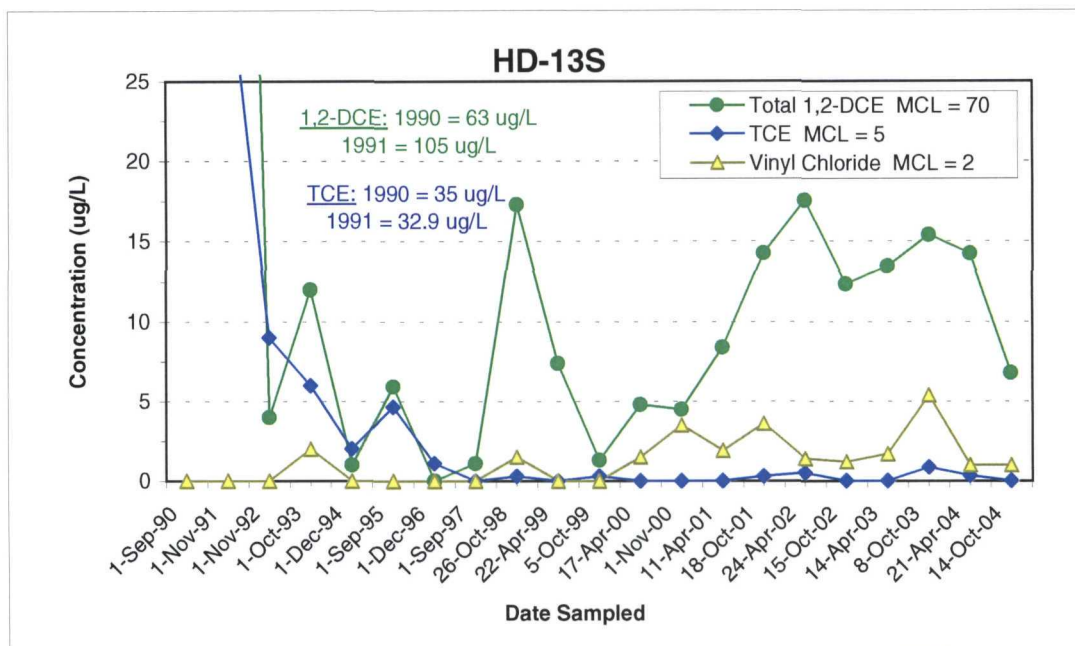
VOCs concentrations are plotted on the bottom graph, at a larger scale to show the variations in concentrations.

**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU5 (FAA-A): Wells HD-12M and HD-12S**  
WPAFB - LTM Program

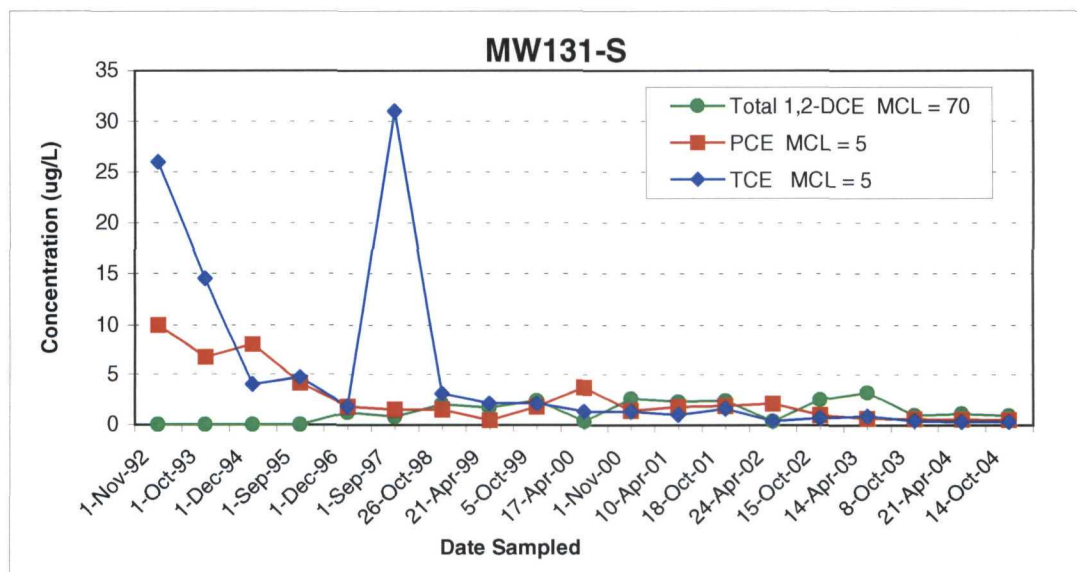
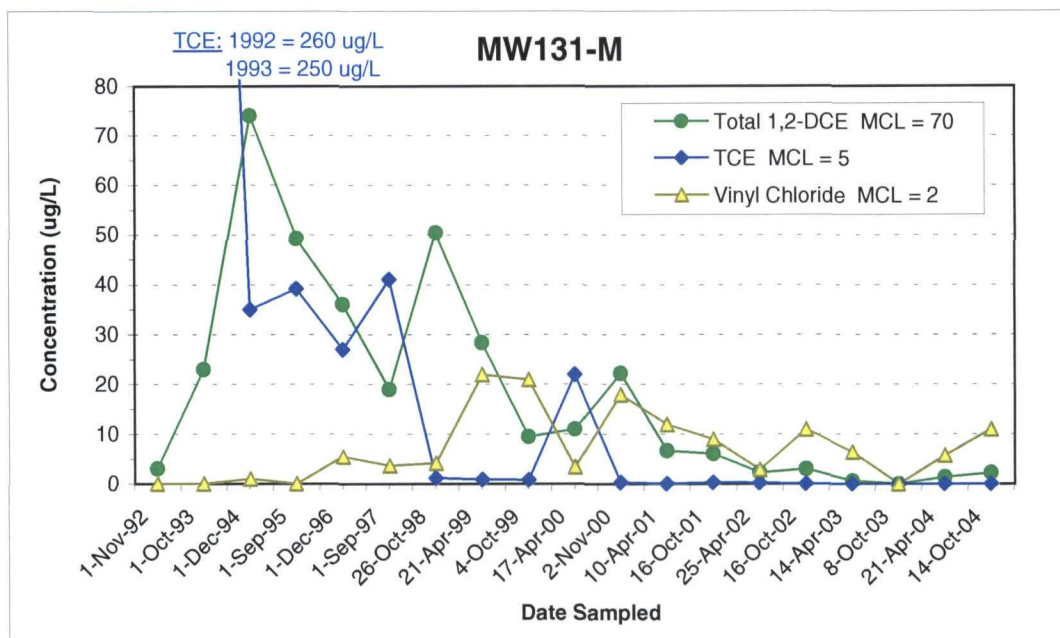




**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU5 (FAA-A): Wells HD-13S and HD-13D**  
WPAFB - LTM Program

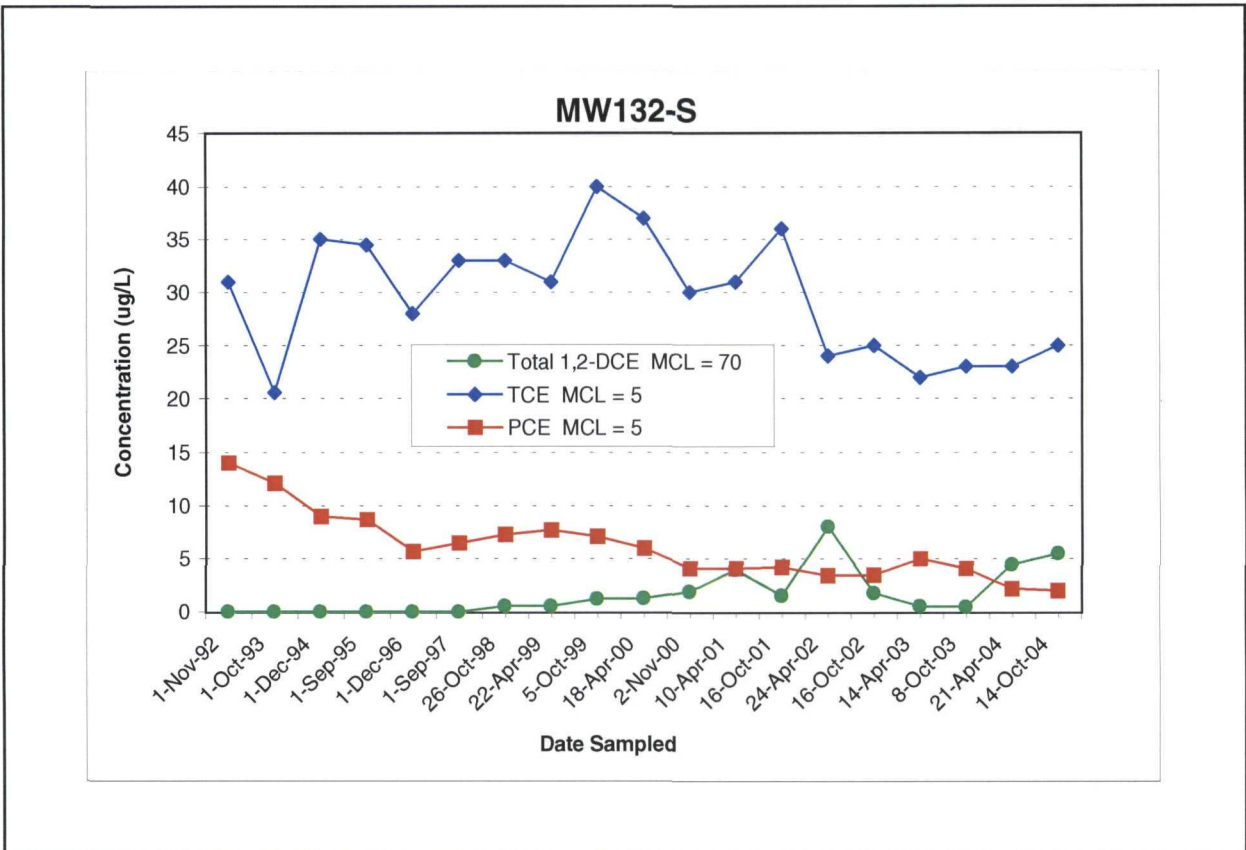


**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU5 (FAA-A): Wells MW131-M and MW131-S**  
WPAFB - LTM Program

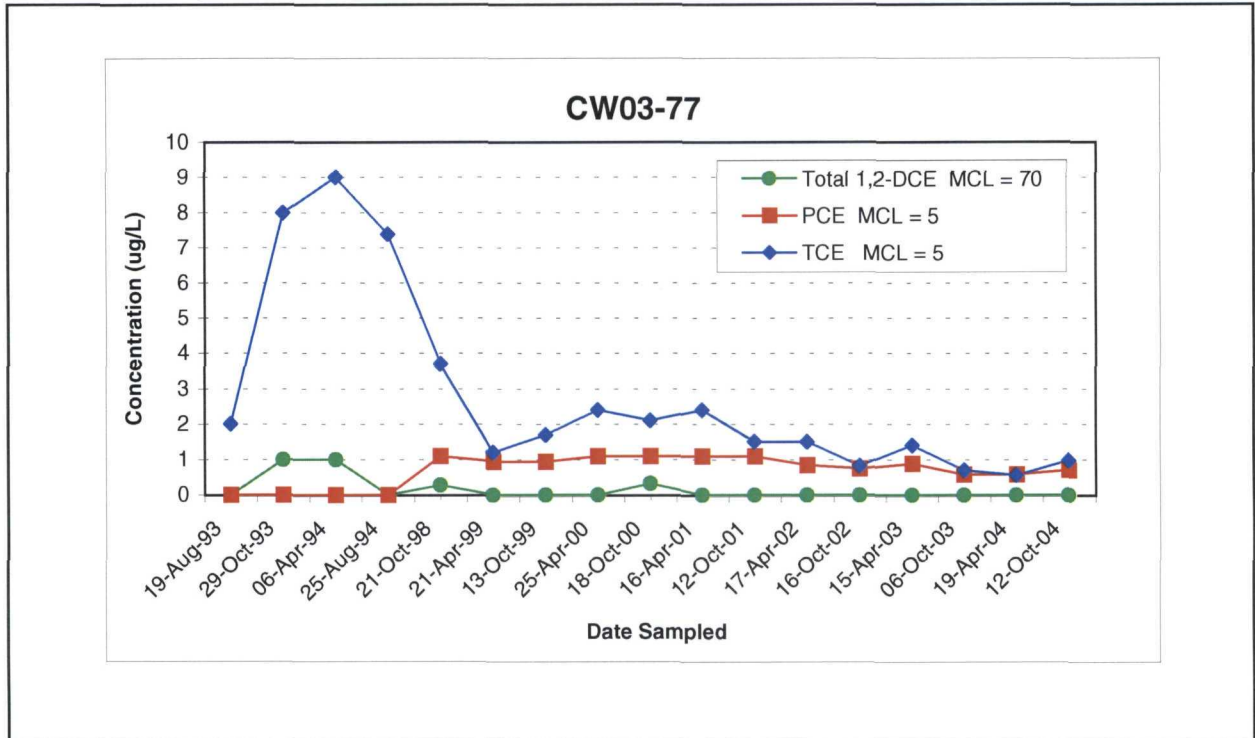




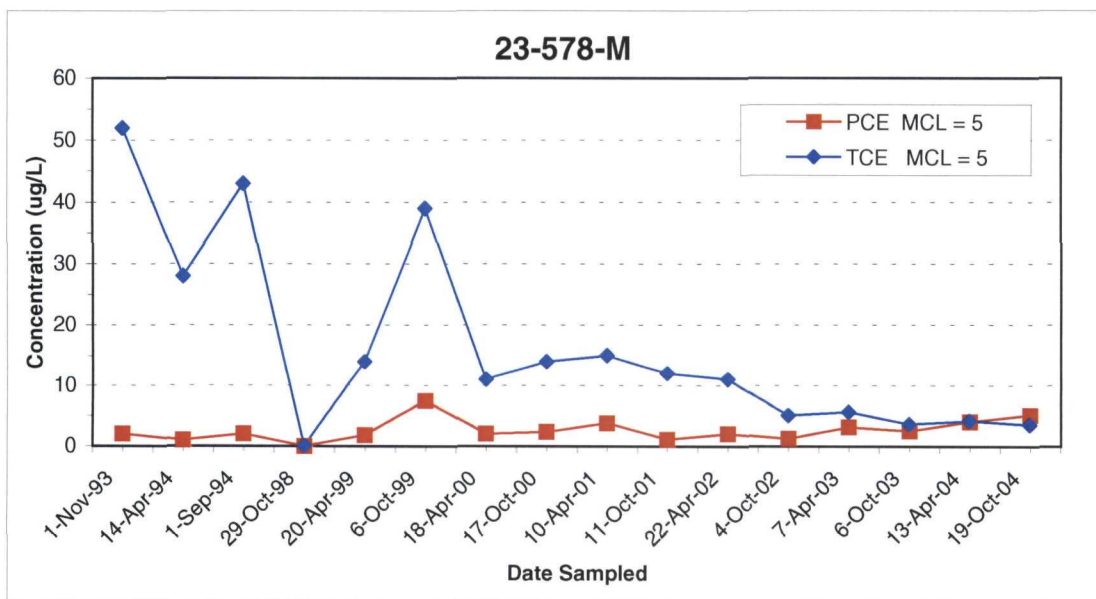
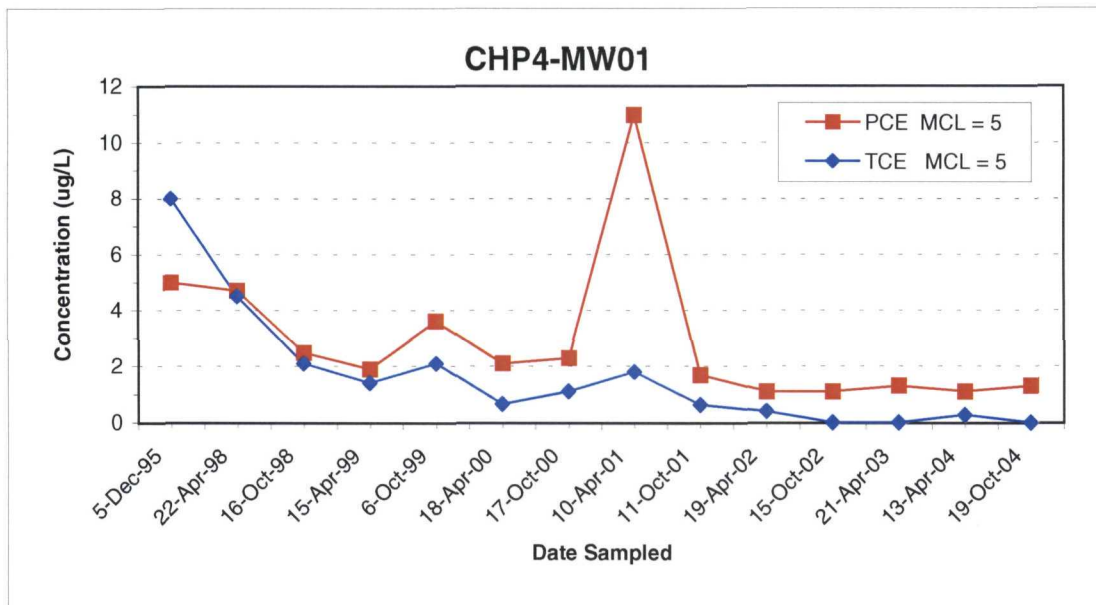
LONG-TERM MONITORING GRAPHS:  
Chemicals of Primary Concern  
OU5 (FAA-A): Well MW132-S  
WPAFB - LTM Program



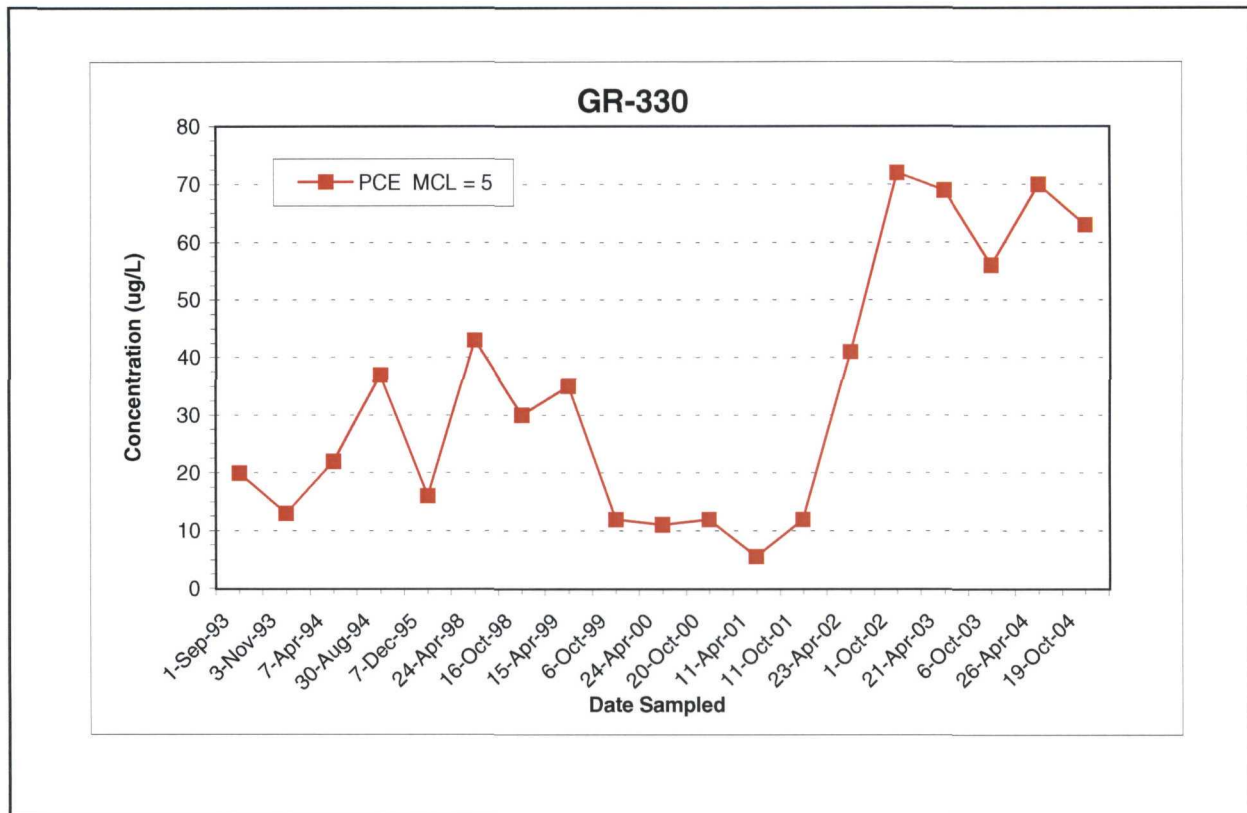
LONG-TERM MONITORING GRAPHS:  
Chemicals of Primary Concern  
OU8: Well CW03-77  
WPAFB - LTM Program



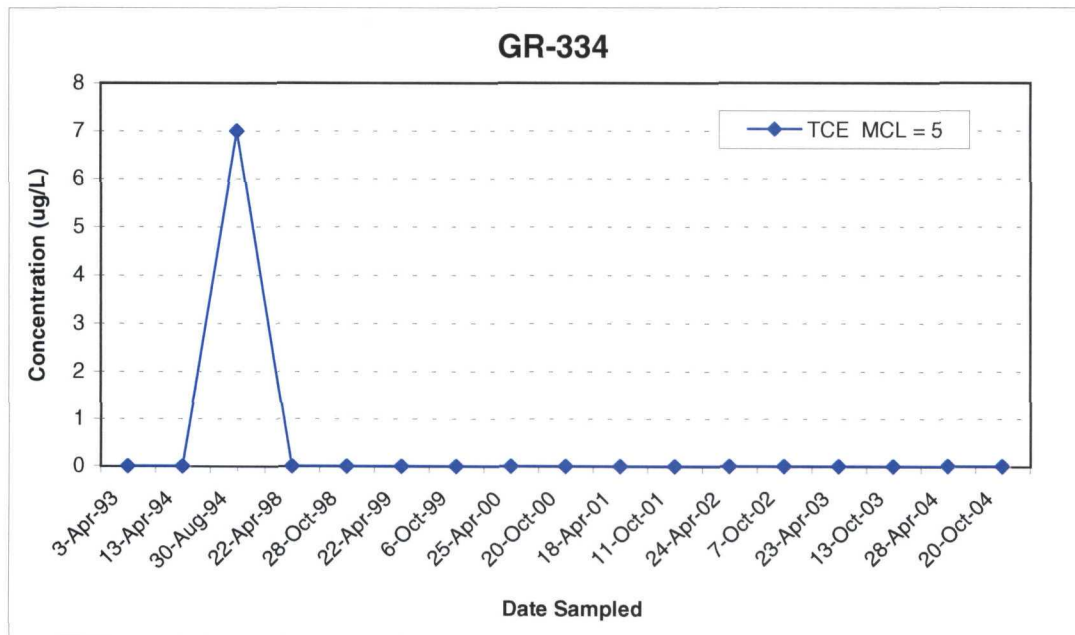
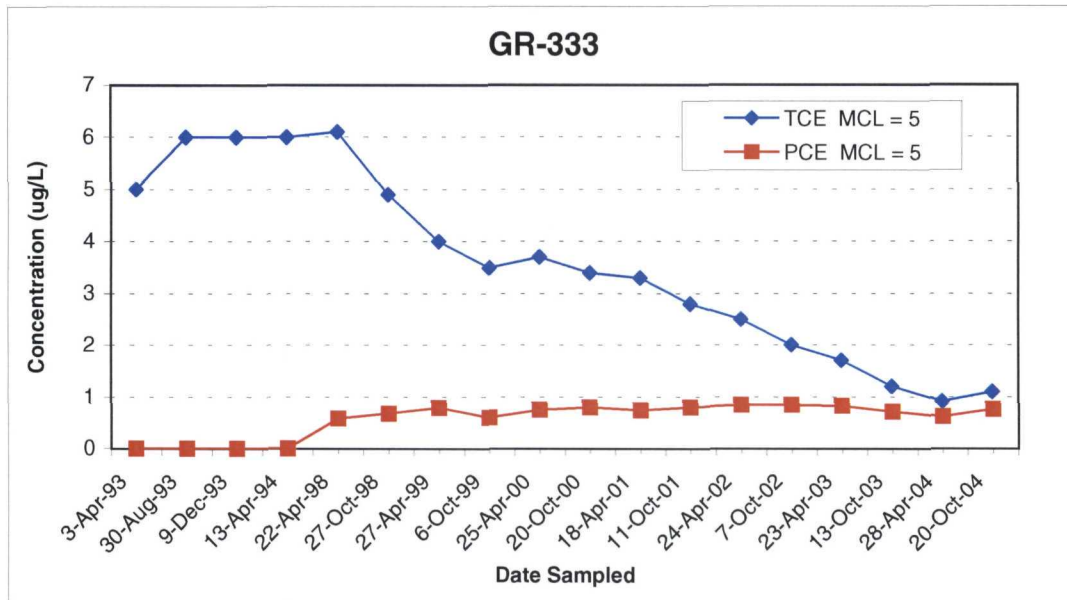
**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU10 (CHP4): Wells CHP4-MW01 and 23-578-M**  
WPAFB - LTM Program



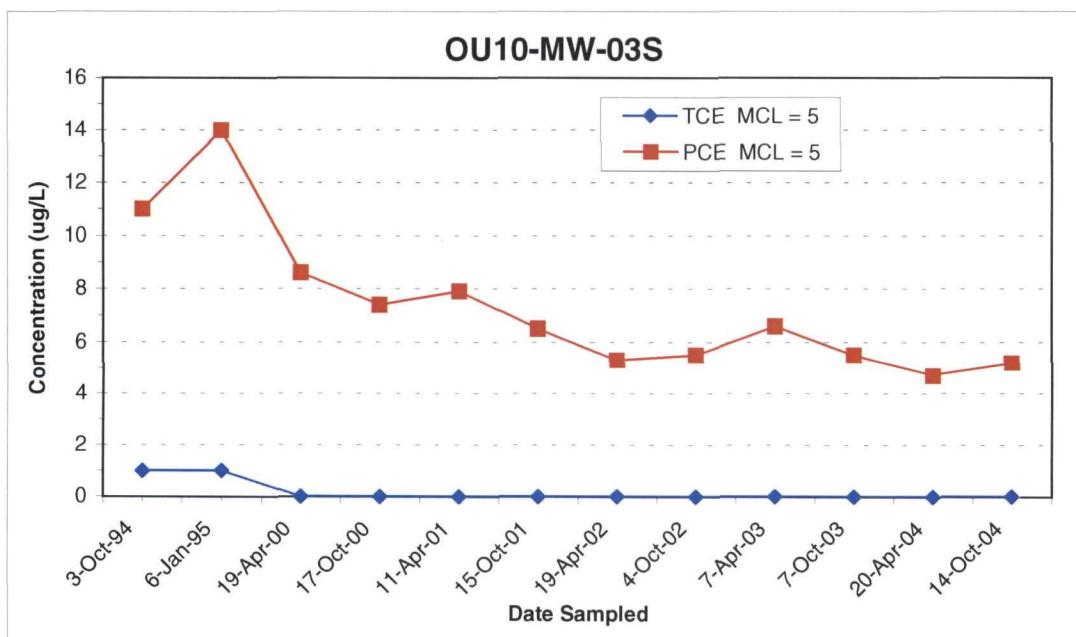
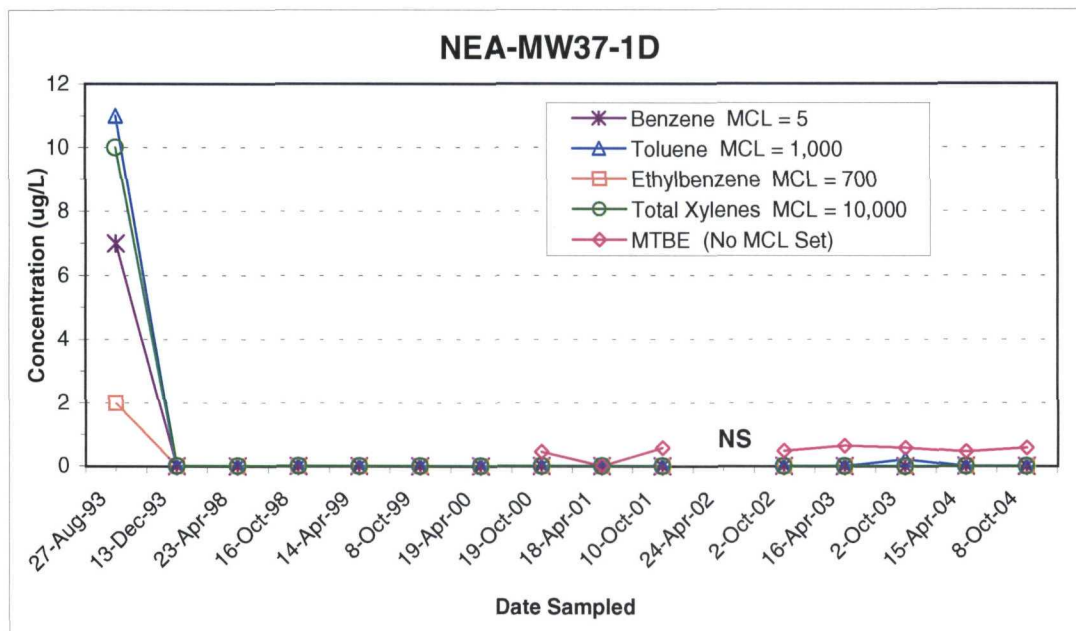
LONG-TERM MONITORING GRAPHS:  
Chemicals of Primary Concern  
OU10 (CHP4): Well GR-330  
WPAFB - LTM Program



**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU10: Wells GR-333 and GR-334**  
WPAFB - LTM Program

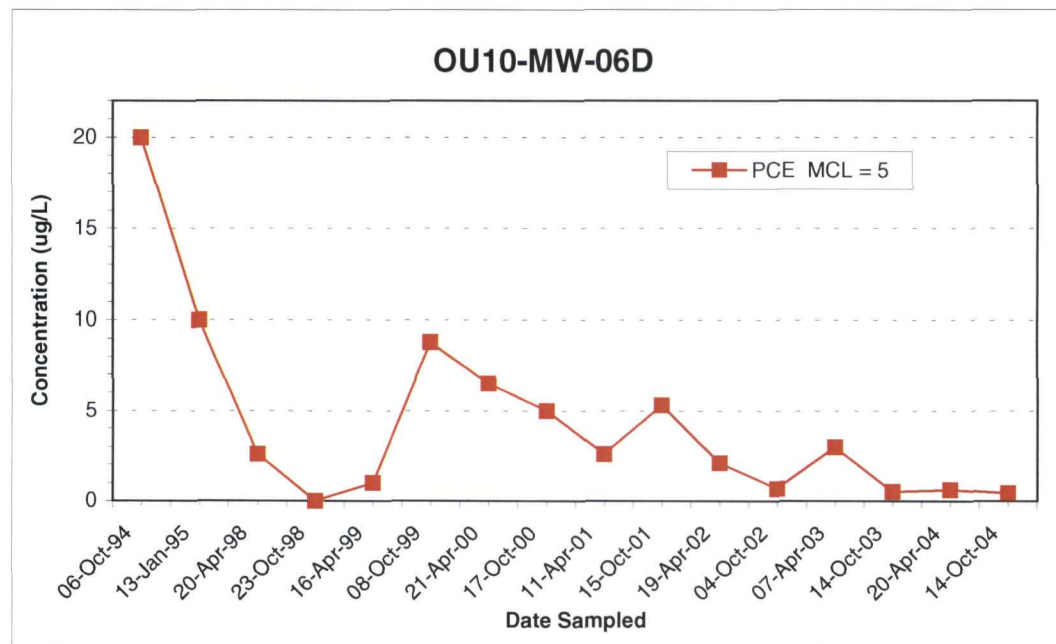
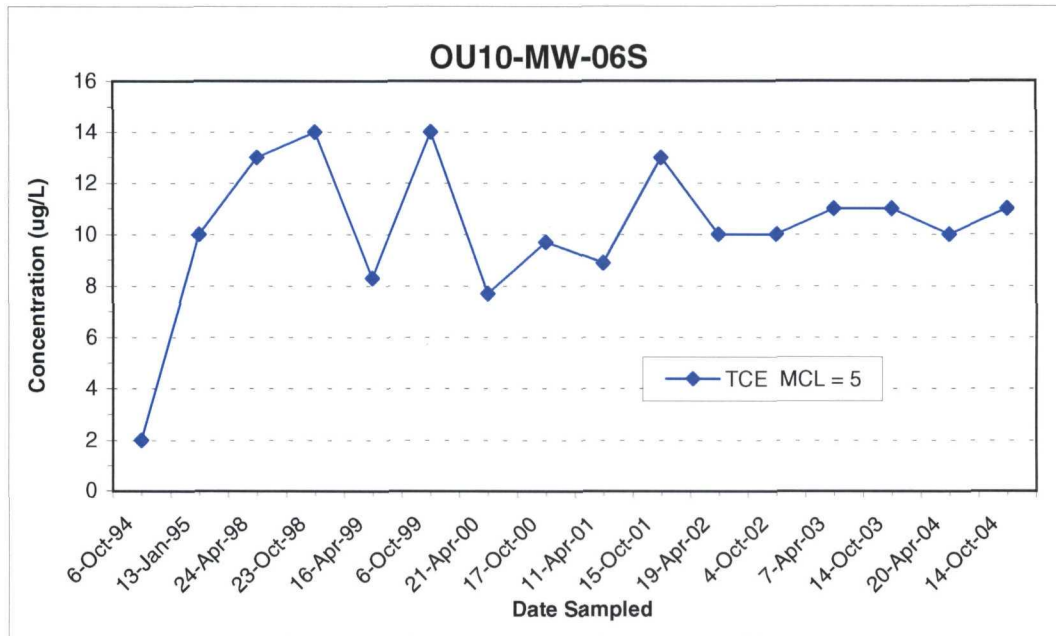


**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU10: Wells NEA-MW37-1D and OU10-MW-03S**  
WPAFB - LTM Program

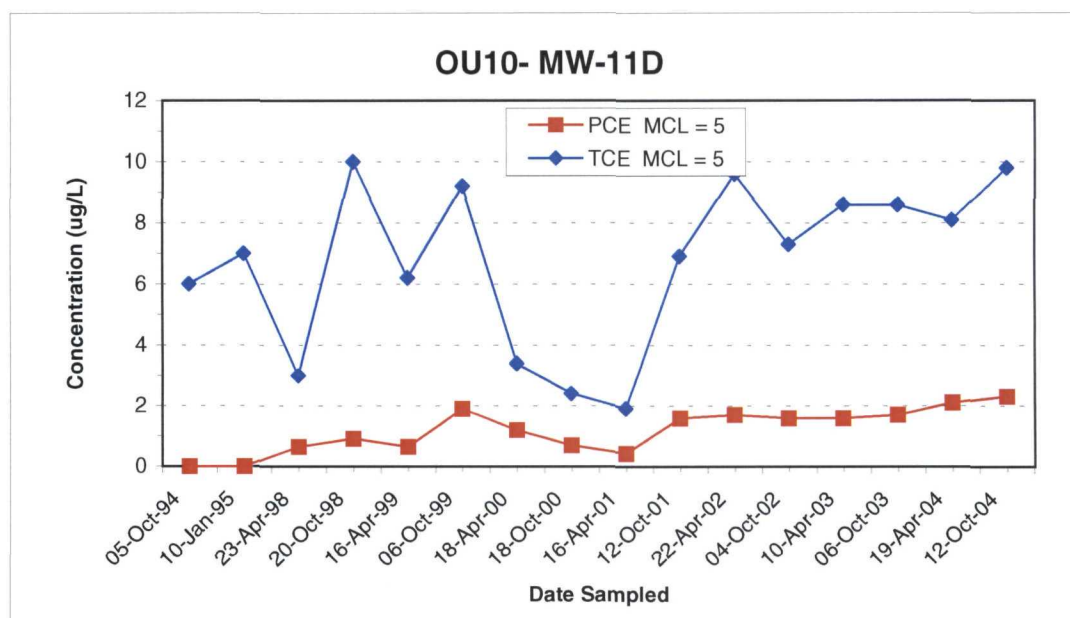
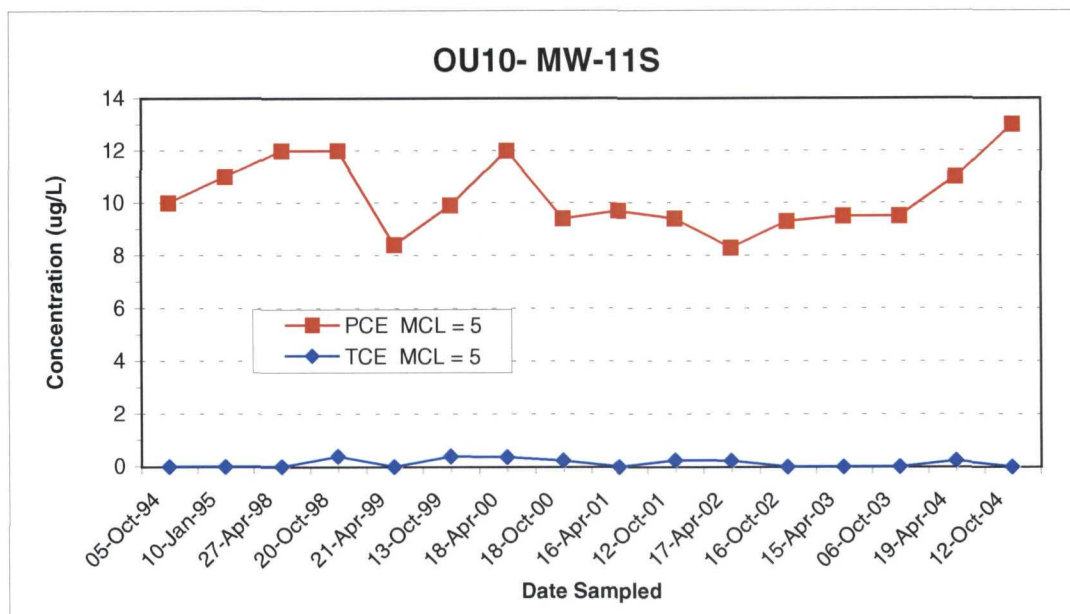




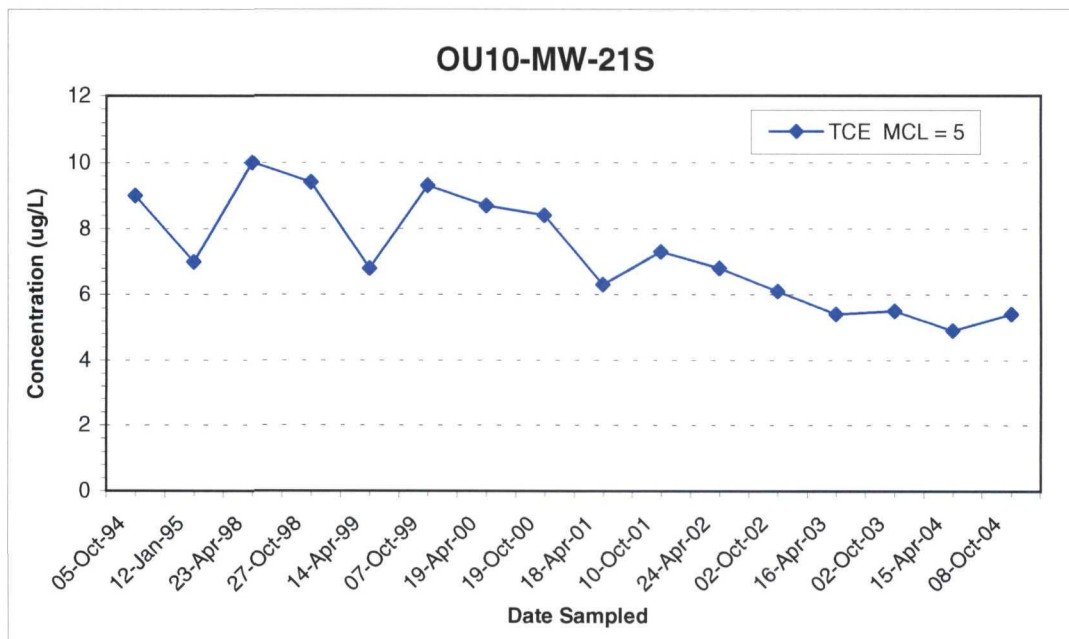
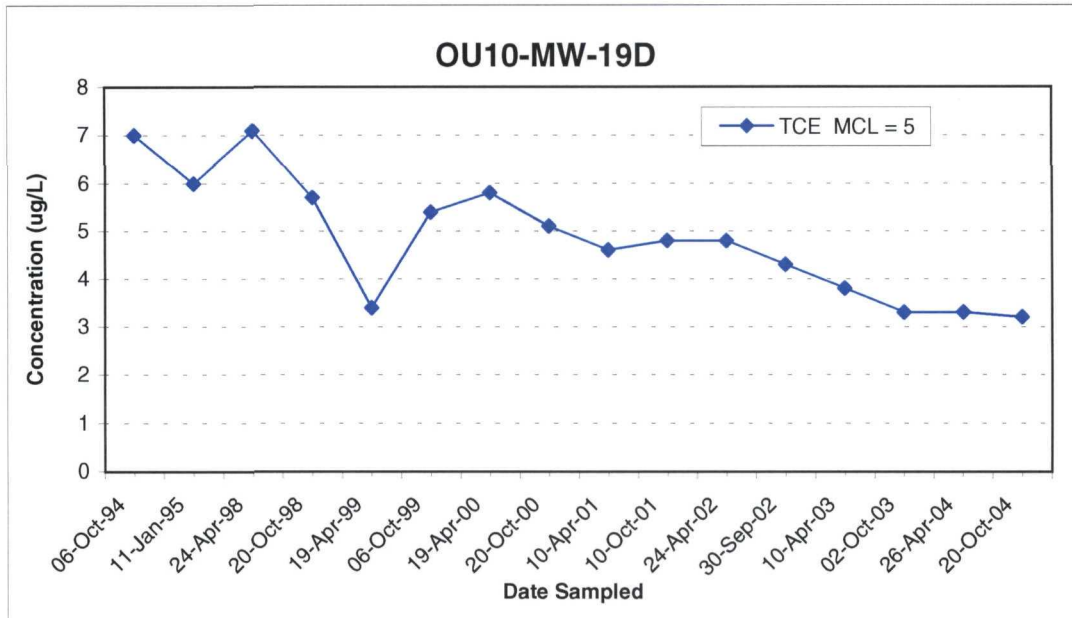
LONG-TERM MONITORING GRAPHS:  
Chemicals of Primary Concern  
OU10: Wells OU10-MW-06S and OU10-MW-06D  
WPAFB - LTM Program



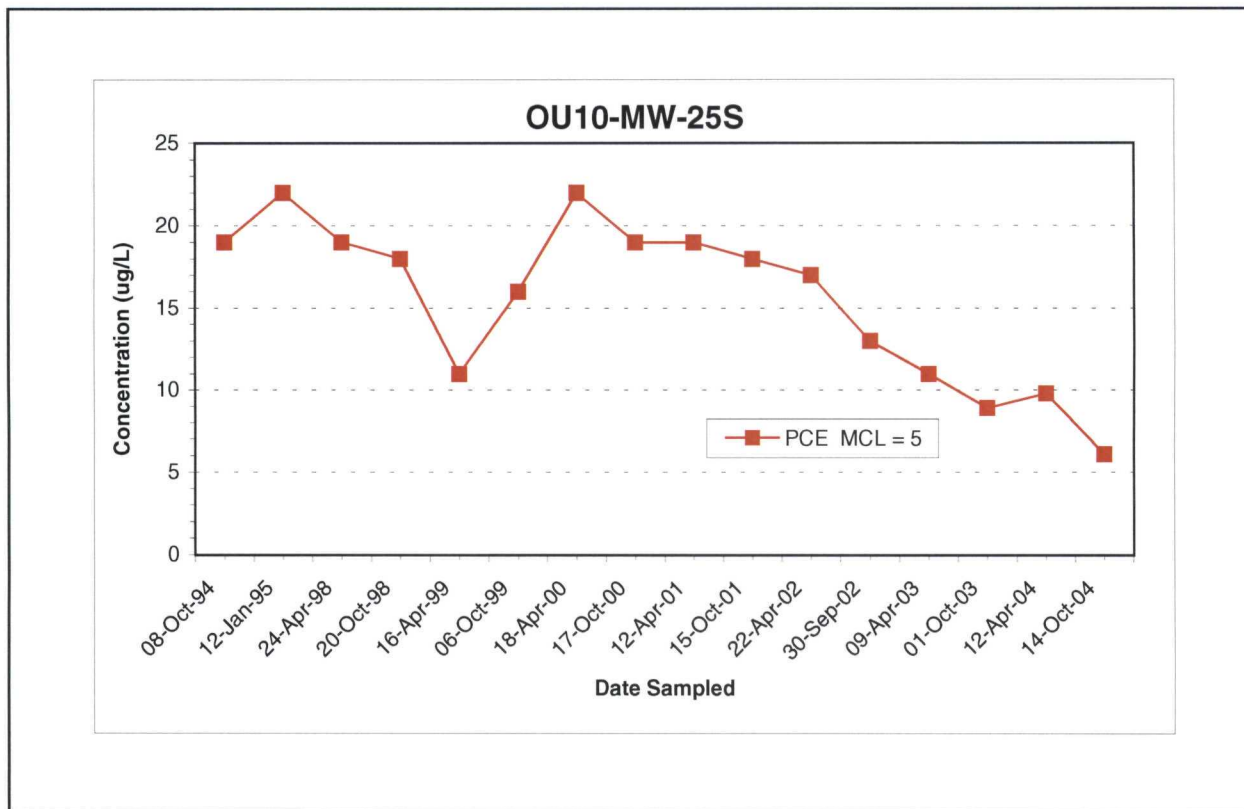
**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU10: Wells OU10-MW-11S and OU10-MW-11D**  
WPAFB - LTM Program



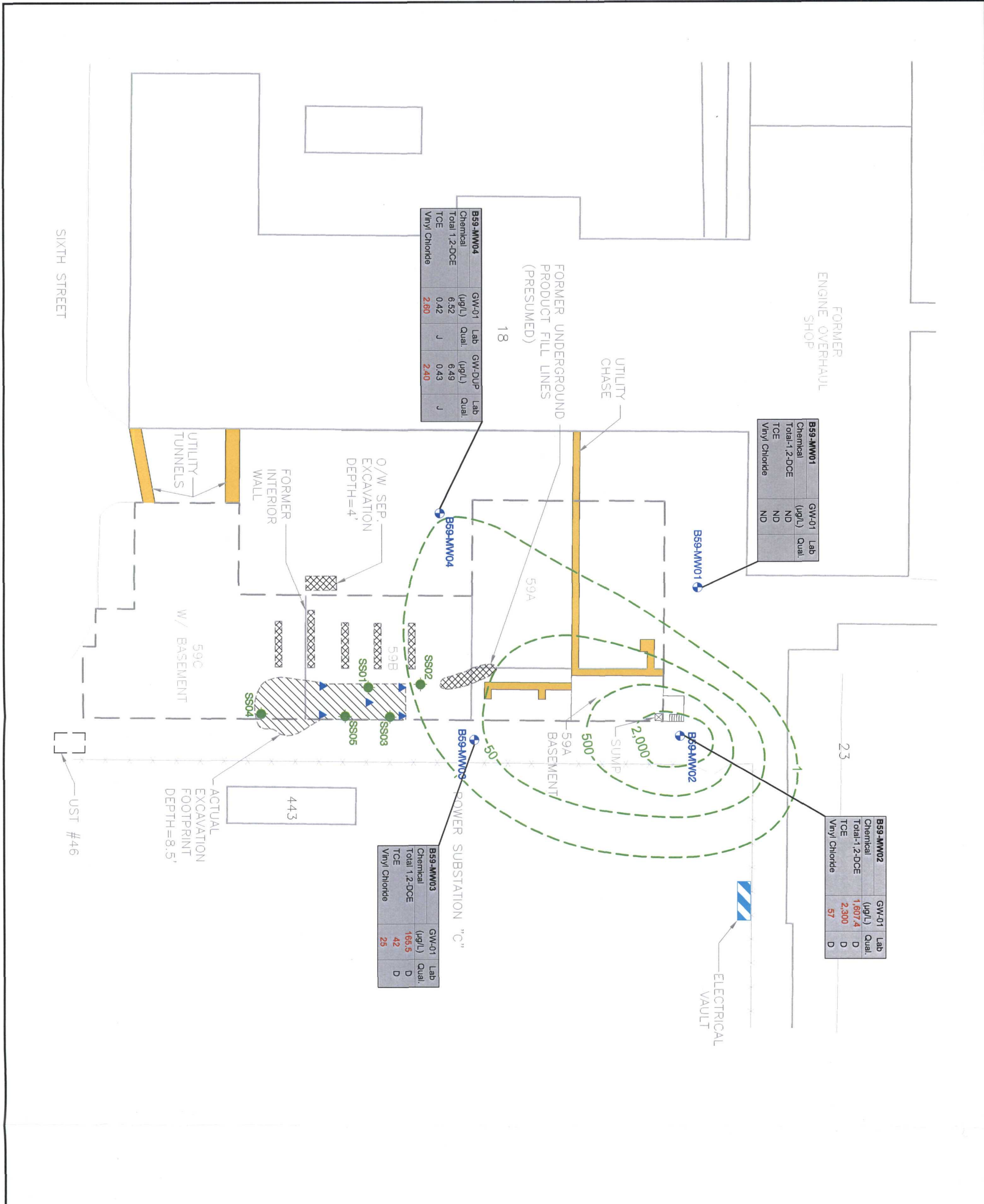
**LONG-TERM MONITORING GRAPHS:**  
**Chemicals of Primary Concern**  
**OU10: Wells OU10-MW-19D and OU10-MW-21S**  
WPAFB - LTM Program



LONG-TERM MONITORING GRAPHS:  
Chemicals of Primary Concern  
OU10: Well OU10-MW-25S  
WPAFB - LTM Program







**LEGEND:**

- MONITORING WELLS WITH VOC ANALYSIS
- CONFIRMATION SOIL SAMPLE LOCATION
- SOIL BORING LOCATION FOR WASTE CHARACTERIZATION
- VOC CONCENTRATIONS (RED=>MCL)
- GROUNDWATER TCE CONCENTRATION ISOPLETH (µg/L) (ppb) (DASHED WHERE INFERRED)
- DILUTED RESULT
- ESTIMATED RESULT
- NOT DETECTED
- UTILITY CHASE
- EXCAVATED AREA (SOIL REMOVED)
- EXCAVATED AREA (SOIL RETURNED TO EXCAVATION)

**SCALE: 1"=40'**

**0 10 20 30 40 80 FEET**

**Shaw Environmental, Inc.**

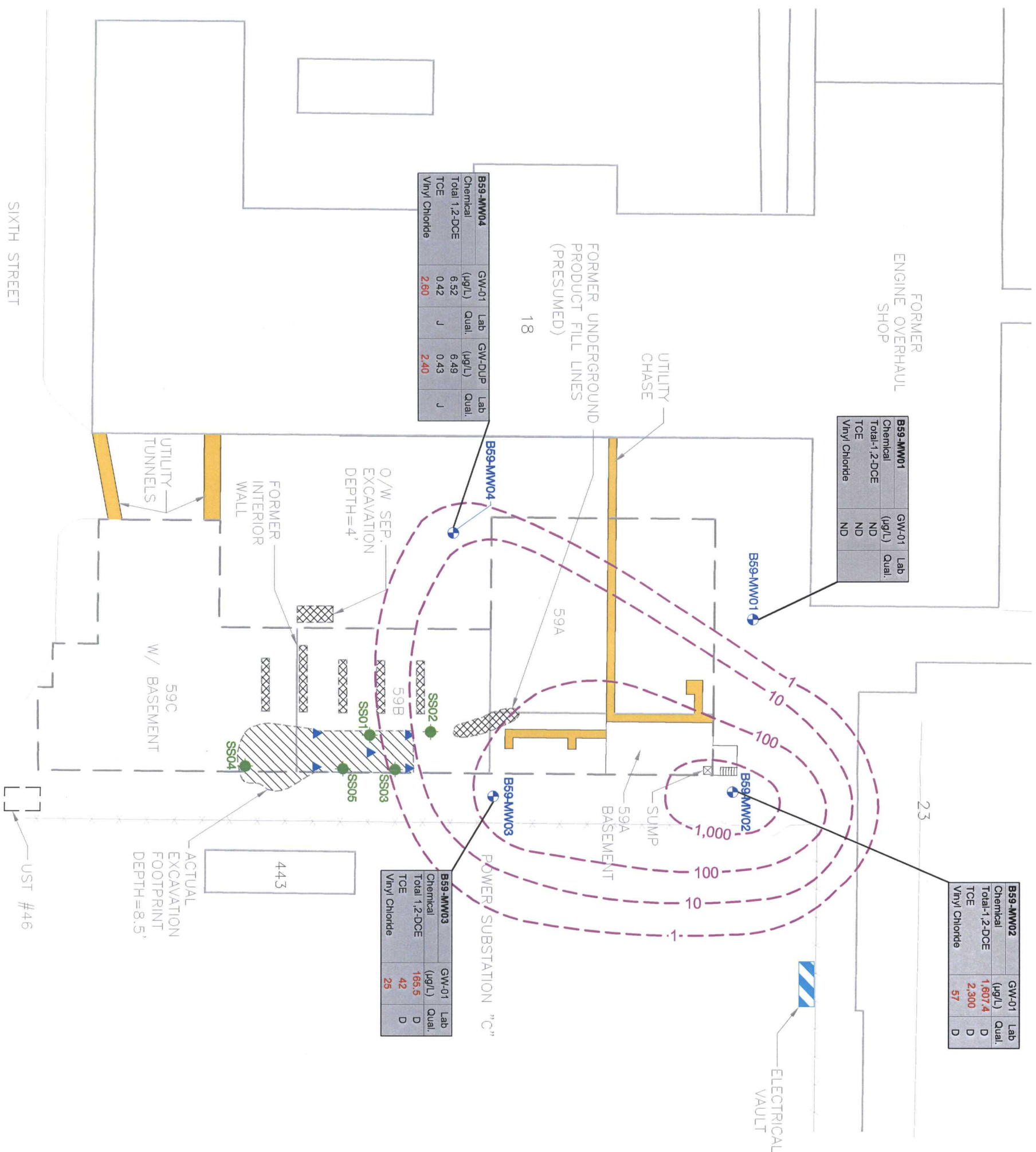
**WRIGHT-PATTERSON AIR FORCE BASE, OHIO**

**Figure 7-1**

**Former Building 59**

**TCE Groundwater Concentrations**

**Isopleth Map: October 2004**



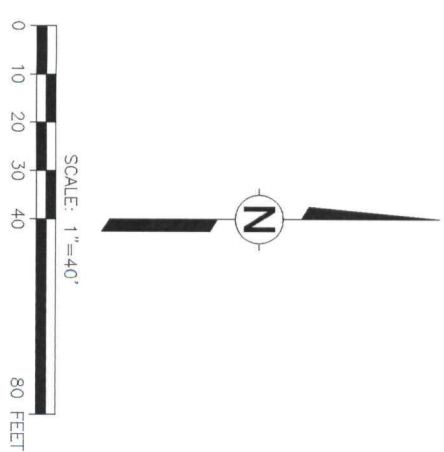
BS9-MW04	GW-01	Lab	GW-DUP	Lab
Chemical	(µg/L)	Qual.	(µg/L)	Qual.
Total 1,2-DCE	6.52	J	6.49	J
TCE	0.42	J	0.43	J
Vinyl Chloride	2.60	J	2.40	J

BS9-MW01	GW-01	Lab
Chemical	(µg/L)	Qual.
Total 1,2-DCE	ND	ND
TCE	ND	ND
Vinyl Chloride	ND	ND

BS9-MW02	GW-01	Lab
Chemical	(µg/L)	Qual.
Total 1,2-DCE	1,607.4	D
TCE	2,300	D
Vinyl Chloride	57	D

BS9-MW03	GW-01	Lab
Chemical	(µg/L)	Qual.
Total 1,2-DCE	165.5	D
TCE	42	D
Vinyl Chloride	25	D

- LEGEND:**
- Monitoring Wells with VOCs Analysis
  - VOC Concentration (RED = >MCL)
  - Groundwater Total 1,2 DCE Concentration Isopleth (µg/L) (ppb) (Dashed where inferred)
  - D - Diluted Result
  - J - Estimated Result
  - ND - Not Detected
  - Utility Chase
  - Excavated Area (Soil Removed)
  - Excavated Area (Soil Returned to Excavation)

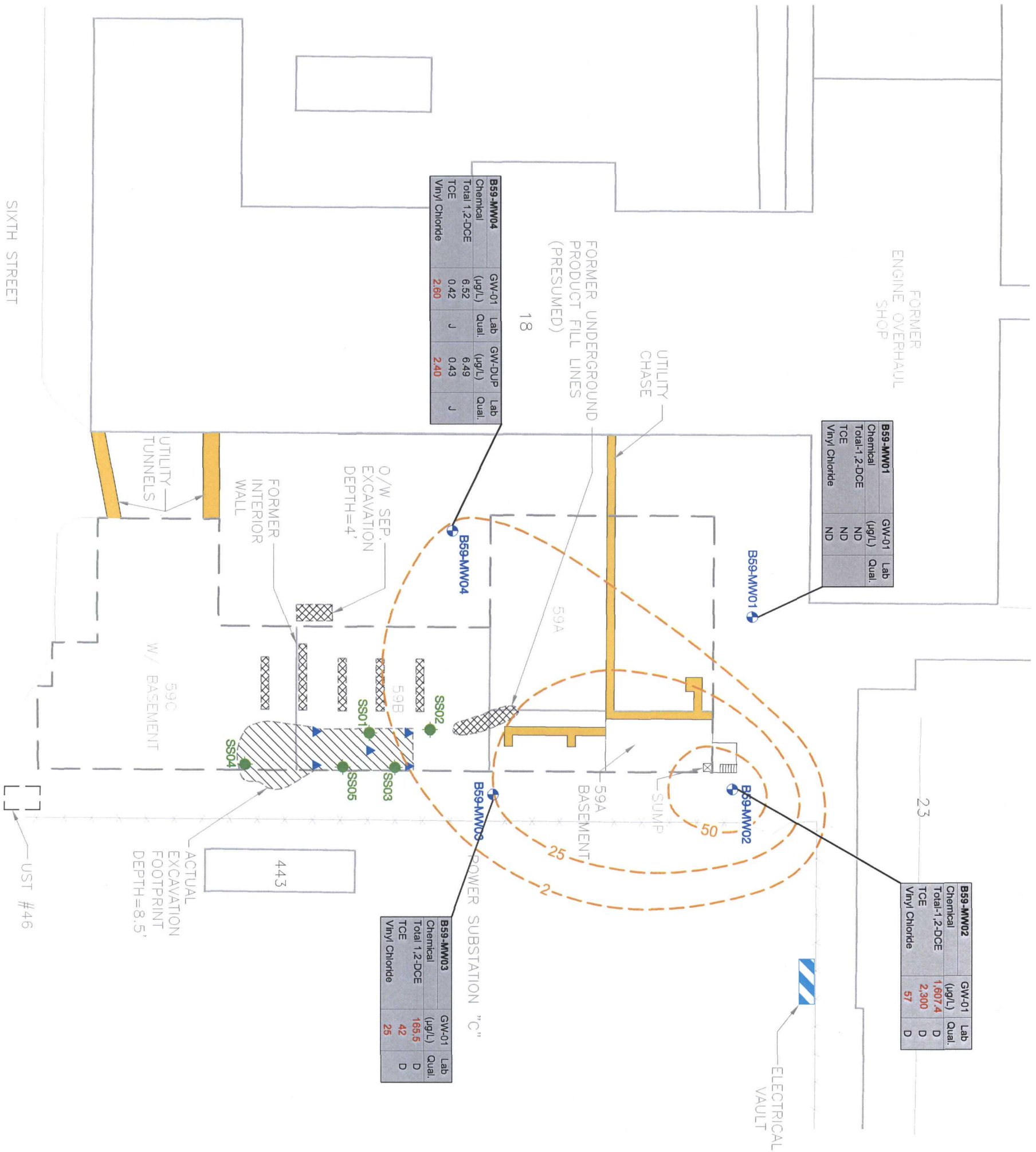


**Shaw Environmental, Inc.**

WRIGHT-PATTERSON AIR FORCE BASE, OHIO

**Figure 7-2**  
Former Building 59  
Total 1,2-DCE  
Groundwater Concentrations  
Isopleth Map: October 2004





B59-MW01		GW-01	Lab
Chemical	(µg/L)	ND	Qual.
Total 1,2-DCE		ND	
TCE		ND	
Vinyl Chloride		ND	

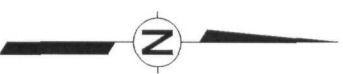
B59-MW02		GW-01	Lab
Chemical	(µg/L)		Qual.
Total 1,2-DCE		1,607.4	D
TCE		2,300	D
Vinyl Chloride		57	D

B59-MW04		GW-01	Lab
Chemical	(µg/L)		Qual.
Total 1,2-DCE		6.52	
TCE		0.42	J
Vinyl Chloride		2.60	2.40

B59-MW03		GW-01	Lab
Chemical	(µg/L)		Qual.
Total 1,2-DCE		165.5	
TCE		42	D
Vinyl Chloride		25	D

# LEGEND:

- MONITORING WELLS WITH VOC ANALYSIS
- CONFIRMATION SOIL SAMPLE LOCATION
- SOIL BORING LOCATION FOR WASTE CHARACTERIZATION
- VOC CONCENTRATIONS (RED=>MCL)
- GROUNDWATER VINYL CHLORIDE CONCENTRATION ISOPLETH (µg/L) (ppd) (DASHED WHERE INFERRED)
- DILUTED RESULT
- ESTIMATED RESULT
- NOT DETECTED
- UTILITY CHASE
- EXCAVATED AREA (SOIL REMOVED)
- EXCAVATED AREA (SOIL RETURNED TO EXCAVATION)



WRIGHT-PATTERSON  
AIR FORCE BASE,  
OHIO

**Figure 7-3**  
**Former Building 59**  
**Vinyl Chloride**  
**Groundwater Concentrations**  
**Isopleth Map: October 2004**

# EFDZ2

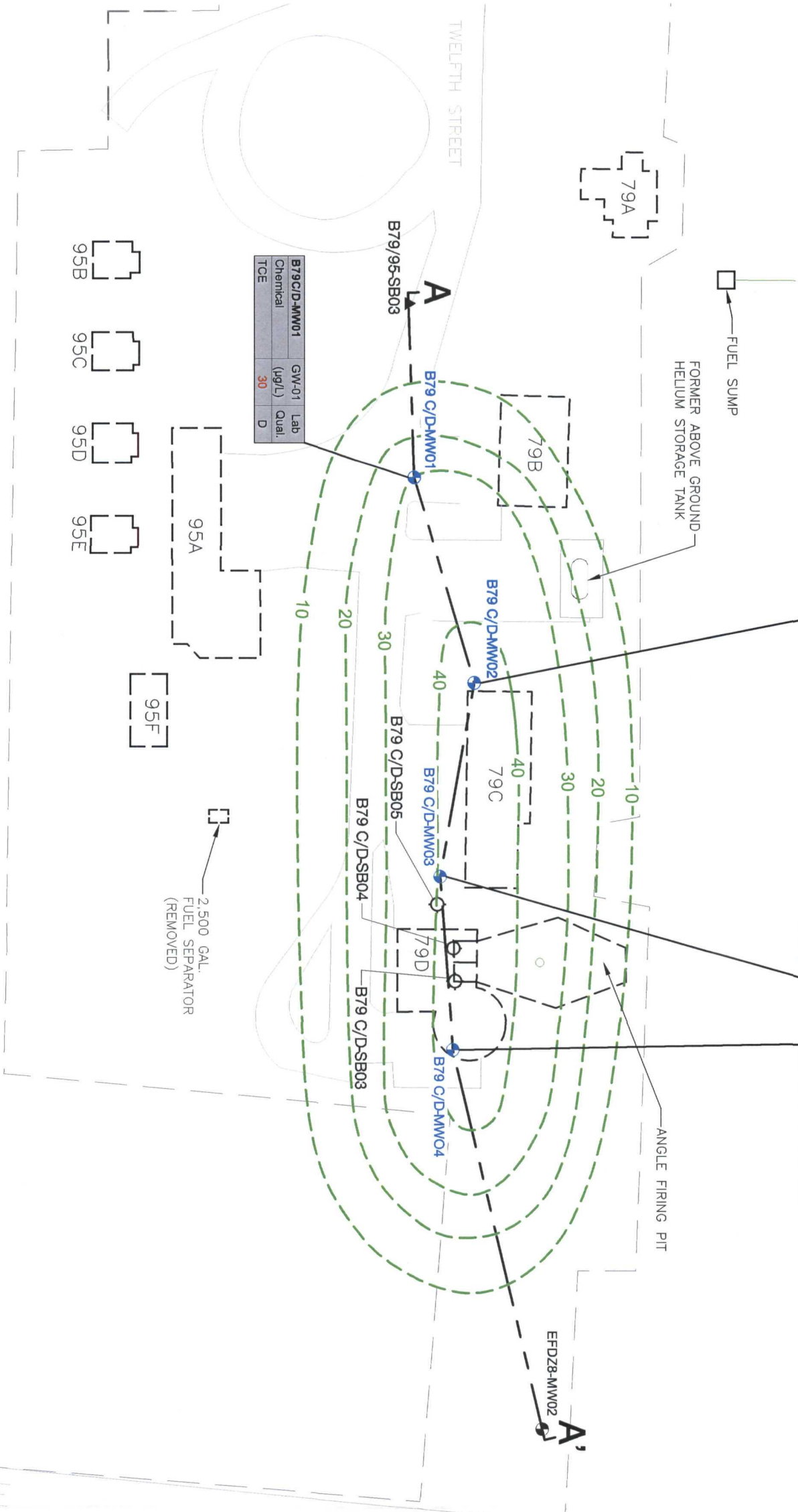
EFDZ2-MMW04

B79C/D-MMW02			
Chemical	GW-01	Lab	
TCE	(µg/L)	Qual.	D
	45		

B79C/D-MMW03			
Chemical	GW-01	Lab	GW-DUP
TCE	(µg/L)	Qual.	(µg/L)
	40		40

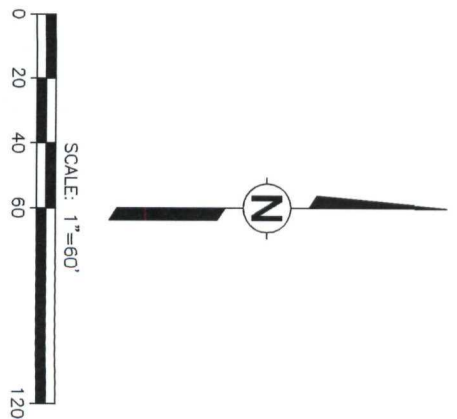
B79C/D-MMW04			
Chemical	GW-01	Lab	
TCE	(µg/L)	Qual.	D
	45		

B79C/D-MMW01			
Chemical	GW-01	Lab	
TCE	(µg/L)	Qual.	D
	30		



## LEGEND:

- SUPPLEMENTAL SOIL BORING LOCATION: NOVEMBER 2001
- ▲ INITIAL SOIL BORING LOCATION FOR PERCHLORATE ANALYSIS
- MONITORING WELLS WITH VOC ANALYSIS
- GROUNDWATER TCE CONCENTRATION ISOPLETH (µg/L) (ppd) (DASHED WHERE INFERRED)
- D DILUTED RESULT
- 45 VOC CONCENTRATION (RED=>MCL)
- FORMER BUILDING LOCATION
- A A' GEOLOGIC CROSS SECTION LINE



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AIR FORCE BASE,  
OHIO

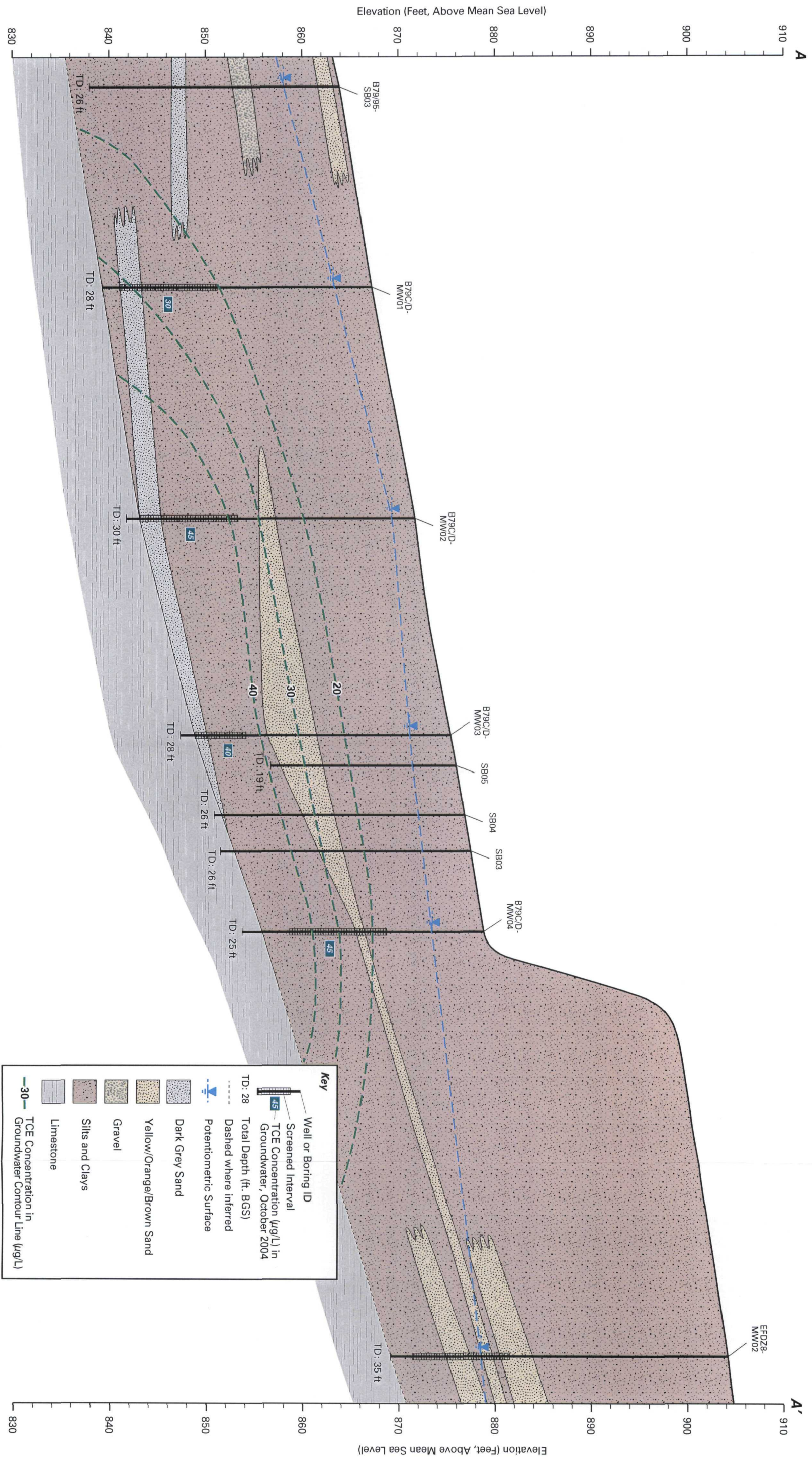
**Figure 7.4**  
Former Building 79 TCE Groundwater  
Concentrations Isopleth Map:  
October 2004

EFDZ3



Horizontal Scale, Feet  
0 20 40

Vertical Scale, Feet  
0 10



**Figure 7-5.**  
Former Building 79/95 Complex  
Geologic Cross Section A-A'  
TCE Concentrations in  
Groundwater: October 2004  
Wright-Patterson AFB, Ohio

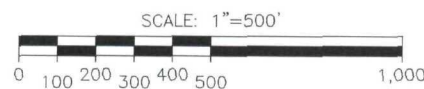


DRAWN BY  
2/4/05  
MSN  
CHECKED BY  
2/4/05  
MC  
APPROVED BY  
2/4/05  
JT  
DRAWING NUMBER  
05-30.DWG



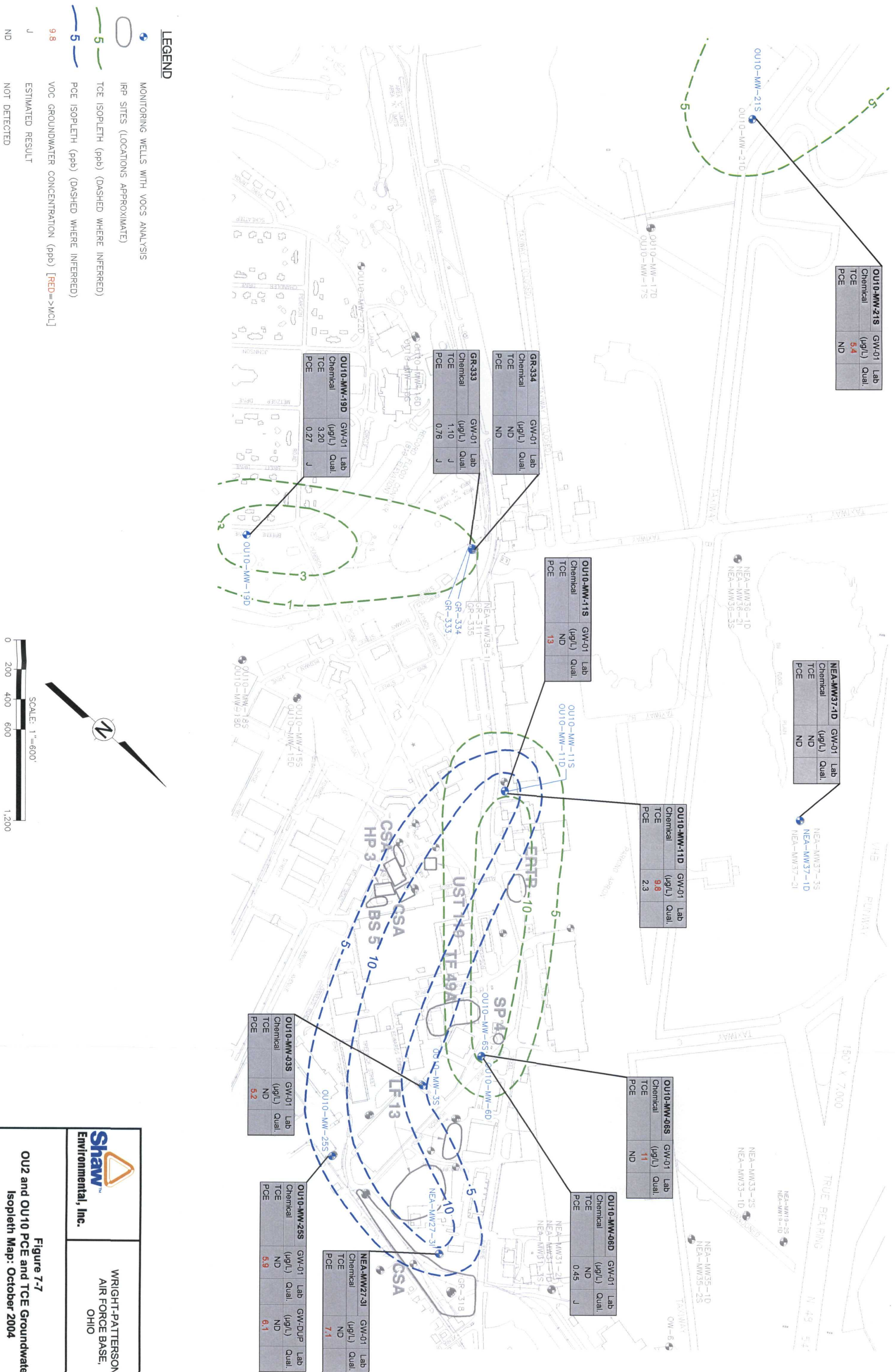
**LEGEND:**

- MONITORING WELLS WITH ANNUAL VOCs ANALYSIS
- MONITORING WELLS WITH SEMI-ANNUAL VOCs ANALYSIS
- (1.3) PCE GROUNDWATER CONCENTRATION ( $\mu\text{g/L}$ ) (ppb) [RED=>MCL]
- 20-- PCE CONCENTRATION ISOPLETH ( $\mu\text{g/L}$ ) (ppb) (DASHED WHERE INFERRED)
- (ND) NOT DETECTED



WRIGHT-PATTERSON  
AIR FORCE BASE  
OHIO

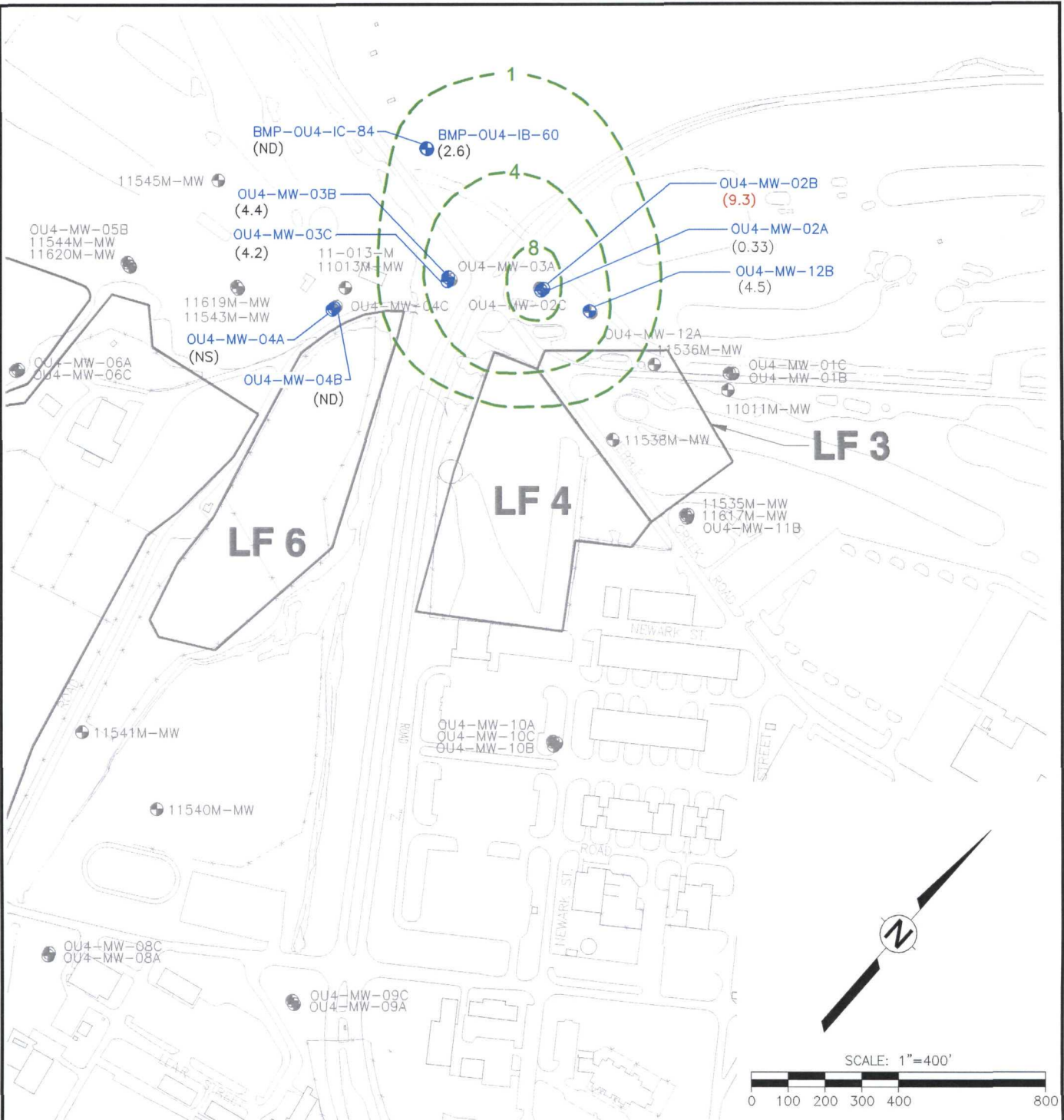
**Figure 7-6**  
**Burial Site 5**  
**PCE Groundwater Concentration**  
**Isopleth Map: October 2004**



**Figure 7-7**  
**OU2 and OU10 PCE and TCE Groundwater**  
**Isopleth Map: October 2004**



DRAWN BY	MSN	CHECKED BY	MC	2/14/05	DRAWING NUMBER	05-31.DWG
		APPROVED BY	JT	2/14/05		



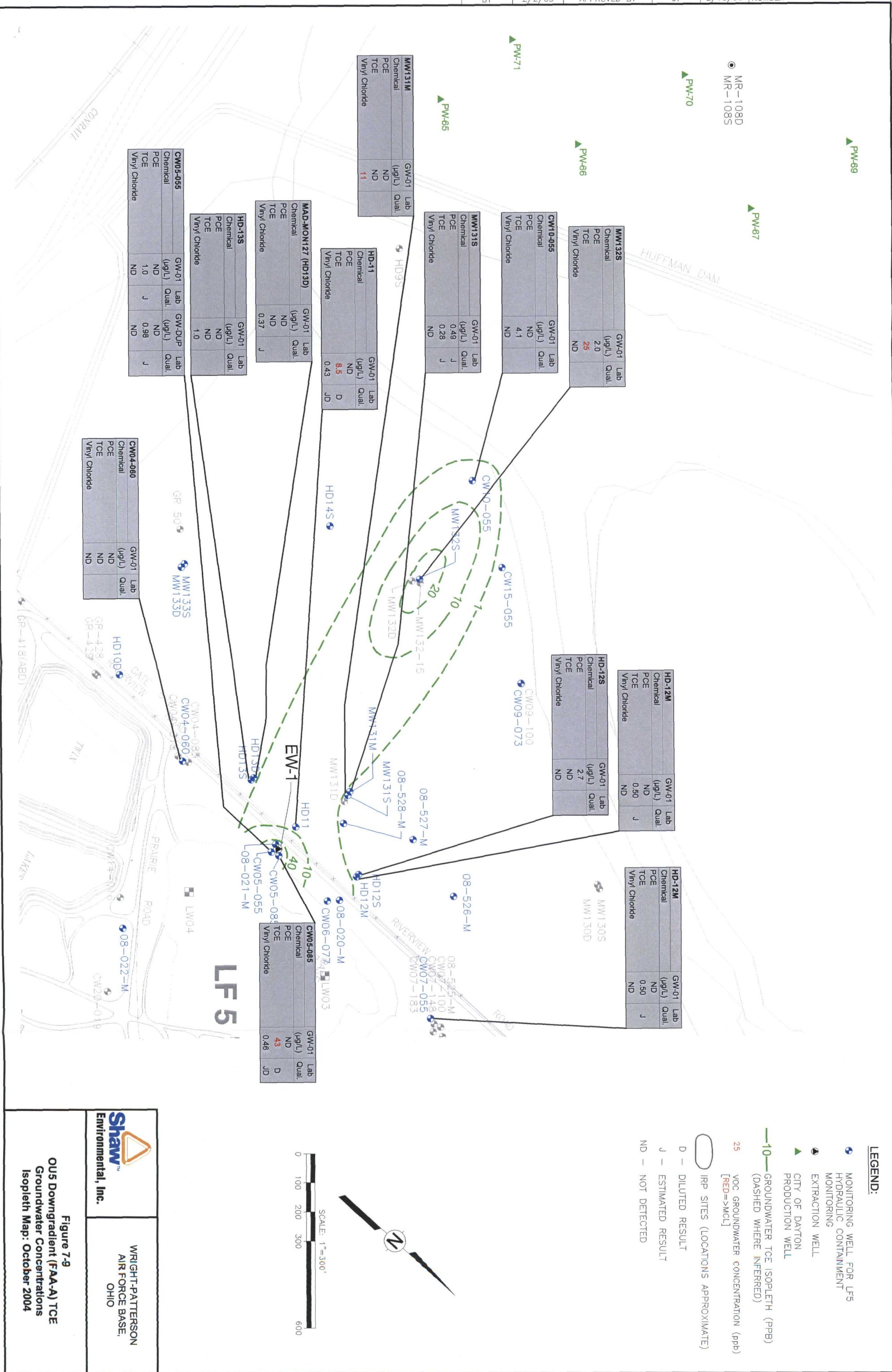
#### LEGEND

- MONITORING WELLS WITH VOCs ANALYSIS
- IRP SITES (LOCATIONS APPROXIMATE)
- TCE CONCENTRATION ISOPLETH (ppb)  
(DASHED WHERE INFERRED)
- (4.4) TCE GROUNDWATER CONCENTRATIONS (ppb) [RED=>MCL]
- (ND) NOT DETECTED
- (NS) NOT SAMPLED

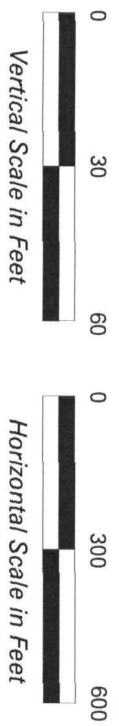


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OHIO

**Figure 7-8**  
**OU4 TCE Groundwater Concentrations**  
**Isopleth Map: October 2004**



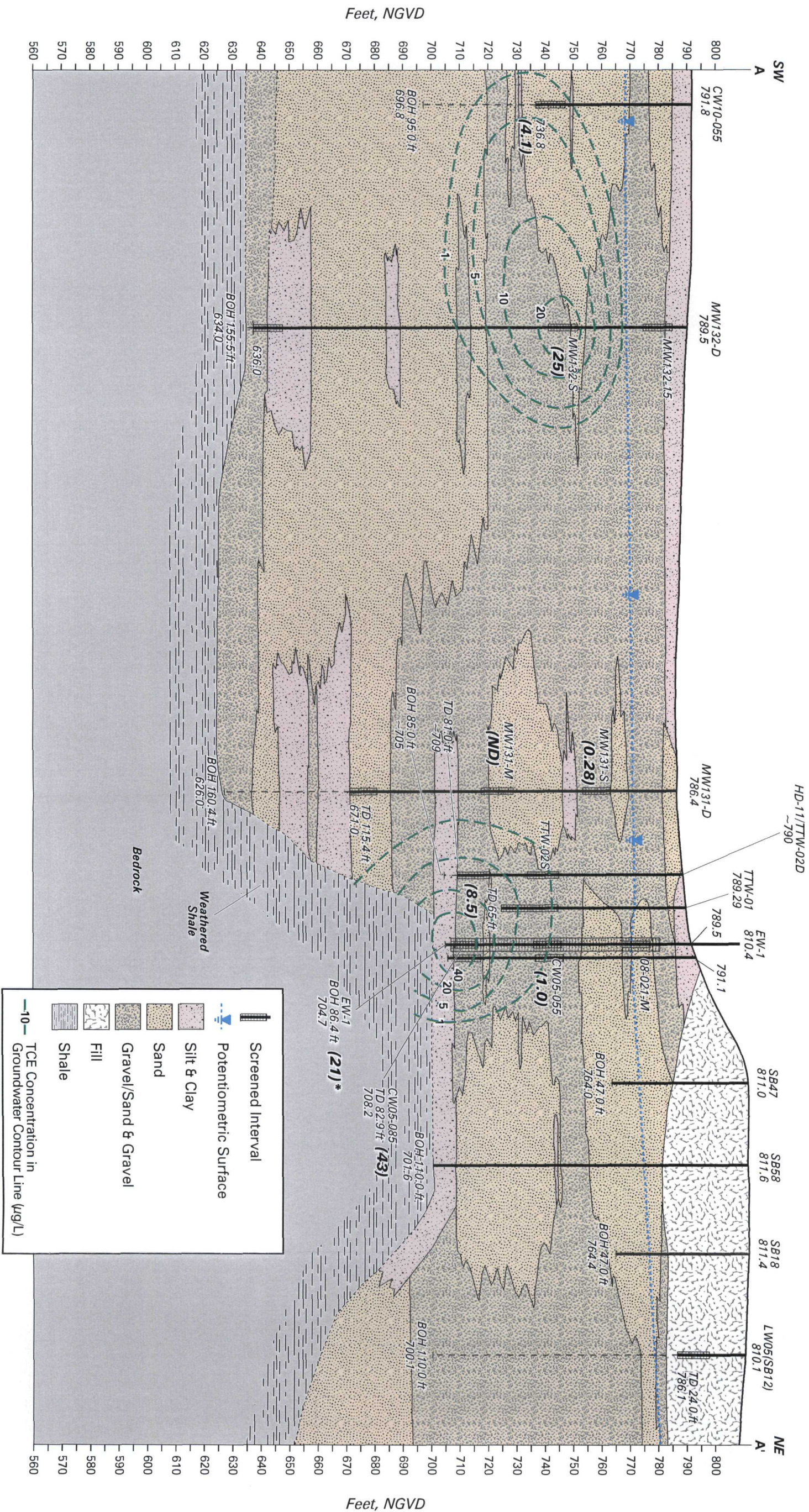




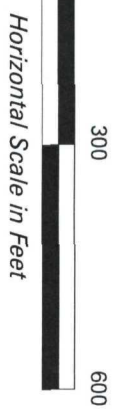
Vertical Exaggeration: x10  
Looking Northwest

Note:  
BOH = Bottom of Hole  
TD = Total Well Depth  
NGVD = National Geodetic Vertical Datum  
ND = Not Detected  
\* = GWTS Influent Sample (TetraTech, Inc.)

Figure 7-10.  
OU5 Geologic Cross Section A-A' -  
TCE Concentrations in Groundwater:  
October 2004.



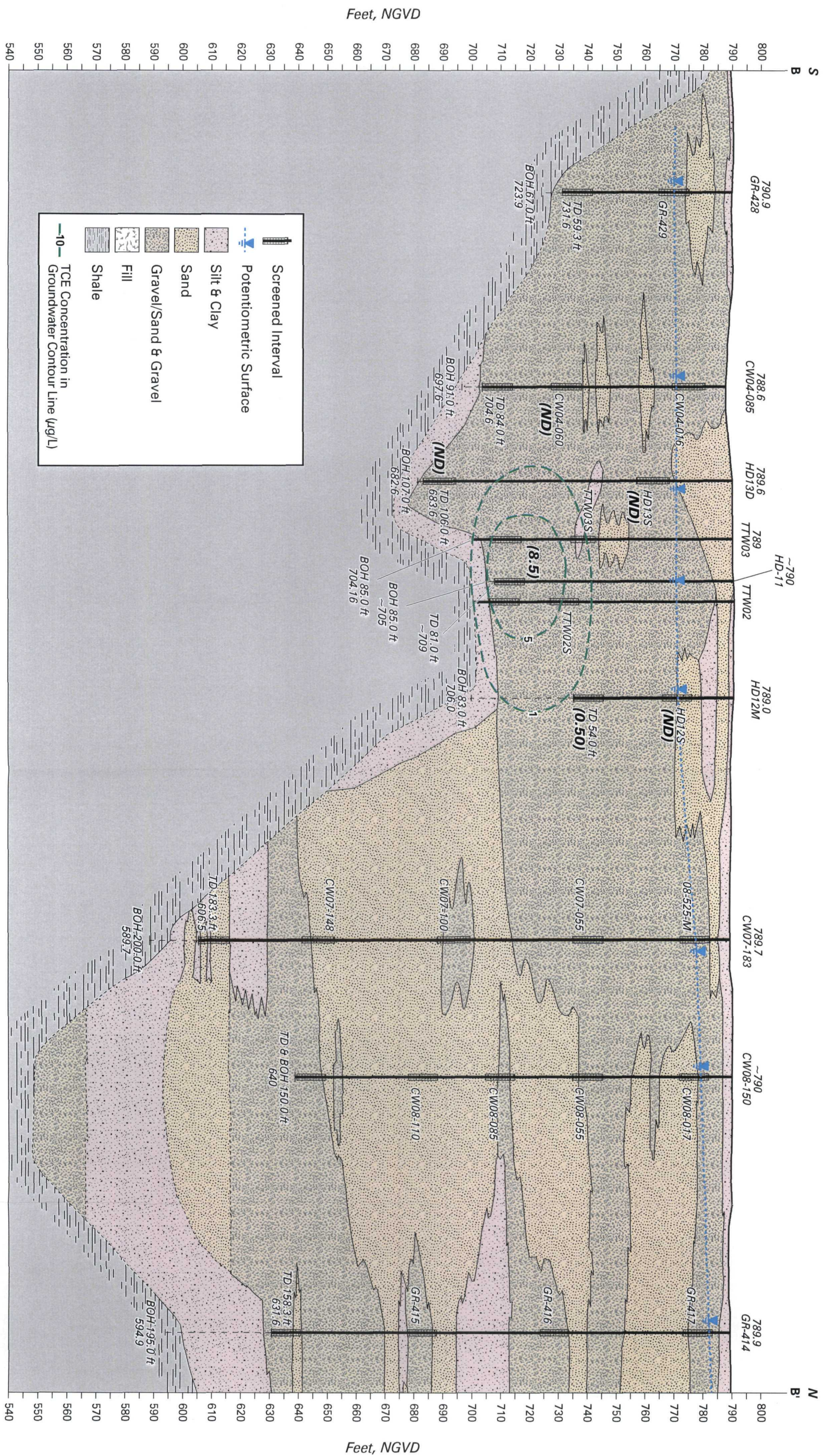




Vertical Exaggeration: x10  
Looking West.

Note:  
BOH = Bottom of Hole  
TD = Total Well Depth  
NGVD = National Geodetic Vertical Datum  
ND = Not Detected

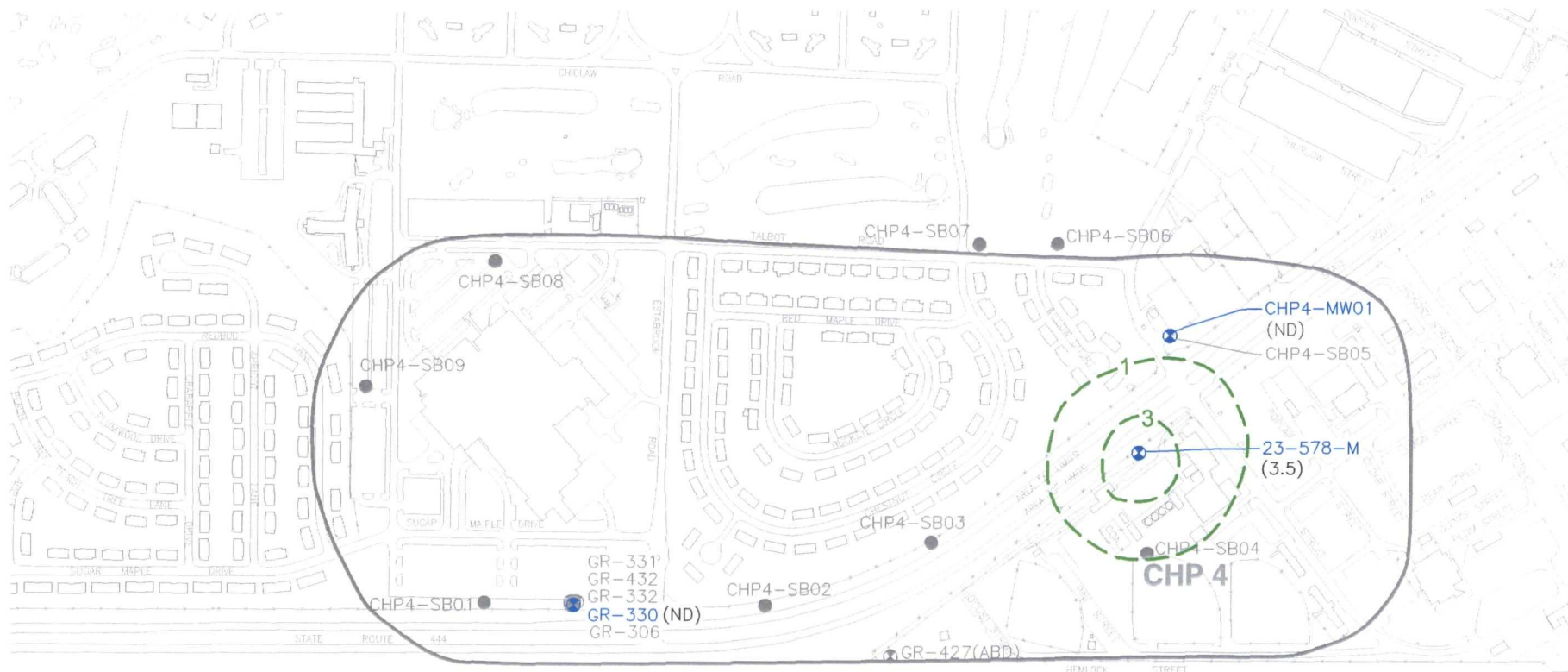
Figure 7-11.  
OU5 Geologic Cross Section B-B'  
TCE Concentrations in Groundwater:  
October 2004.











# LEGEND

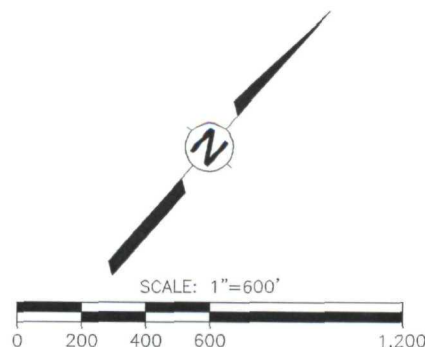
MONITORING WELLS WITH VOCs ANALYSIS

IRP SITES (LOCATIONS APPROXIMATE)

(3.5) TCE GROUNDWATER CONCENTRATION (ppb) [RED=>MCL]

3 TCE CONCENTRATION ISOPLETH (ppb)  
(DASHED WHERE INFERRED)

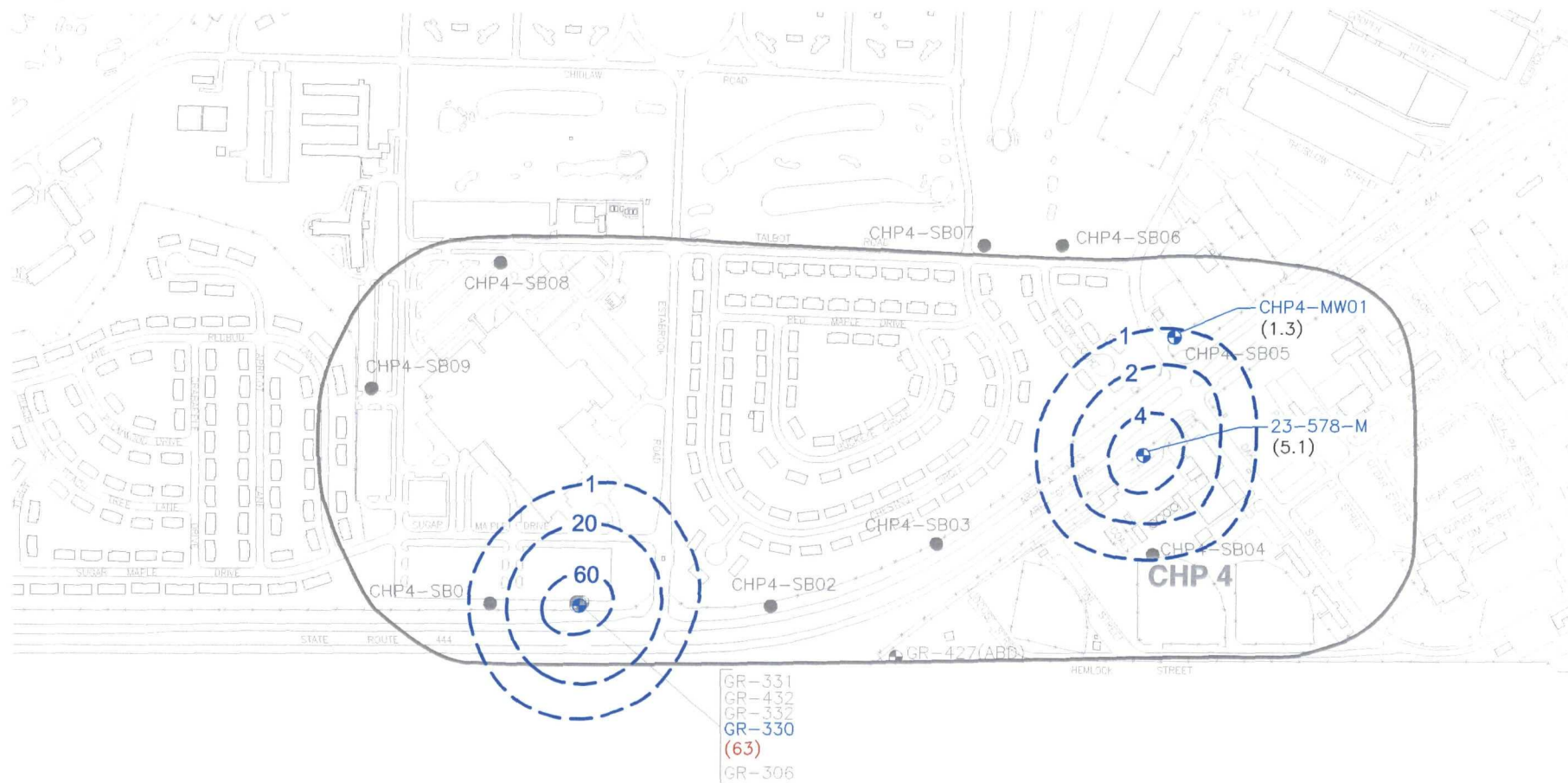
ND NOT DETECTED



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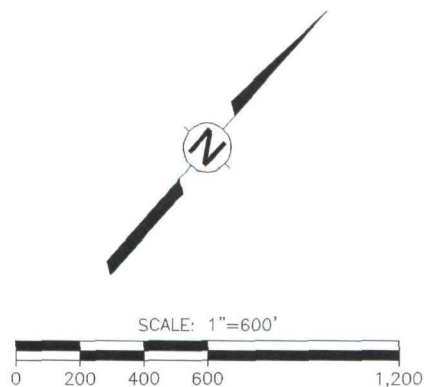
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OHIO

**Figure 7-13**  
**Central Heating Plant 4 / OU10**  
**TCE Groundwater Concentrations**  
**Isopleth Map: October 2004**



# LEGEND

- MONITORING WELLS WITH VOCs ANALYSIS
- IRP SITES (LOCATIONS APPROXIMATE)
- (1.3) PCE GROUNDWATER CONCENTRATION (ppb)  
[RED=>MCL]
- 20-- PCE CONCENTRATION ISOPLETH (ppb)  
(DASHED WHERE INFERRED)

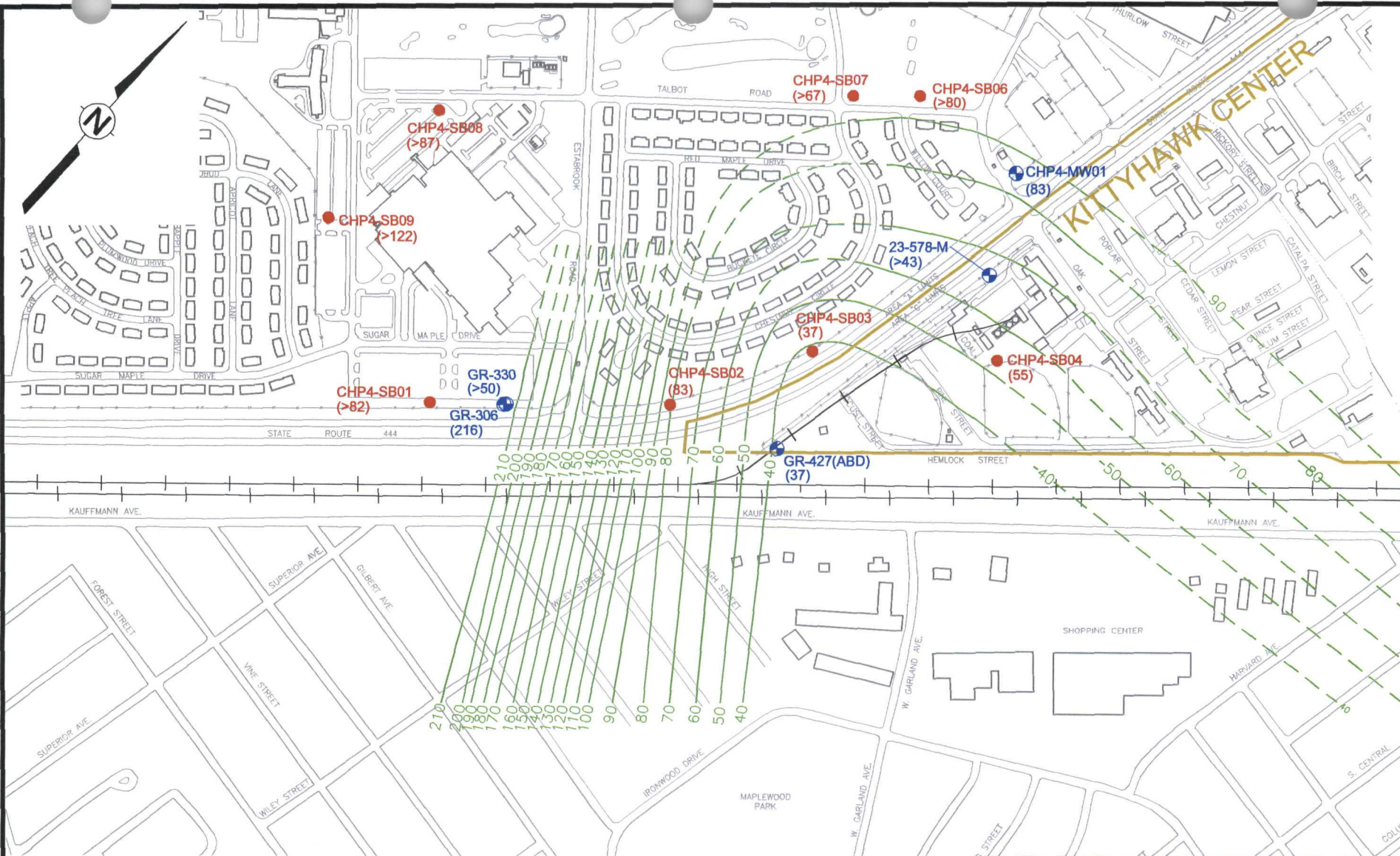


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OHIO

**Figure 7-14**  
**Central Heating Plant 4 / OU10**  
**PCE Groundwater Concentrations**  
**Isopleth Map: October 2004**



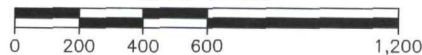
DRAWN BY: MSN 5/10/05  
 CHECKED BY: MC 5/12/05  
 APPROVED BY: JT 5/12/05  
 DRAWING NUMBER: 2005 05-37.DWG



# **LEGEND**

- EXISTING MONITORING WELL
- NEW SOIL BORING LOCATION
- (83) DEPTH TO BEDROCK (FT)
- DEPTH TO BEDROCK CONTOUR LINE (FT)  
(DASHED WHERE INFERRED)

SCALE: 1"=600'



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 AIR FORCE BASE,  
 OHIO

**Figure 7-15**  
**Depth to Bedrock Contour Map**  
**Central Heating Plant 4**

## **Appendix A**

### **Historic Data and Monitoring Procedures**

- A1** Long-Term Monitoring Sampling Frequency and Monitoring Well Inventory
- A2** Operable Unit 1 Compliance Monitoring Objectives and Basewide Procedures Summary
- A3** Operable Unit 2 ROD Long-Term Monitoring and Sampling Procedures Summary
- A4** Basewide Long-Term Monitoring Site History and Monitoring Procedures

**A1 Long-Term Monitoring Sampling Frequency and  
Monitoring Well Inventory**

**Table A1-1 BMP LTM Locations (EE/CA)**

**Table A1-2 Basewide LTM Program Monitoring  
Well Inventory**



**Table A1-1**  
**BMP Monitoring Locations**  
**Wright-Patterson AFB, Ohio**  
**Page 1 of 4**

Number of Wells	Sample Location	Area	Reason for Monitoring	COPCs > RG	Monitoring Frequency	Sampling Month(s)	Analytical Parameters	Aquifer Layer	Aquifer Type	Comments
1	OU1 Remedial Action Monitoring	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
2	LF08-MW02A	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
3	LF08-MW02C	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
4	LF08-MW05B	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
5	LF08-MW08A	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
6	LF08-MW08B	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
7	LF08-MW08C	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
8	LF08-MW09A	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
9	LF08-MW09B	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
10	LF08-MW10A	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
11	LF08-MW10B	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
12	LF08-MW10C	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
13	LF08-MW11A	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
14	LF08-MW11B	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
15	LF08-MW11C	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
16	LF08-MW101	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
17	LF08-MW102	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
18	LF08-MW103	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
22	LF10-MW03A	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
23	LF10-MW05B	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
24	LF10-MW05C	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
25	LF10-MW06A	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
26	LF10-MW06A DUP	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
27	LF10-MW06B	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
28	LF10-MW07A	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
29	LF10-MW07B	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
30	LF10-MW07C	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
31	LF10-MW08A	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
32	LF10-MW08B	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
33	LF10-MW09A	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
34	LF10-MW09B	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
35	LF10-MW09C	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
36	LF10-MW10C	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
37	LF10-MW11A	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
38	LF10-MW11B	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
39	LF10-MW102	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
40	LF10-MW103	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
41	LF10-MW104	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
43	02-DM-81S-M (LF8)	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
44	02-DM-81D-M (LF8)	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
45	02-DM-82-M (LF8)	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
46	02-DM-83S-M (LF8)	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
47	02-DM-83D-M (LF8)	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
48	02-DM-84-M (LF8)	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
49	01-DM-102S-M (LF10)	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
50	01-DM-102D-M (LF10)	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	
51	01-004-M (LF10)	OU1	OU1 ROD	NA	Annual	October	OU1 ROD Parameters	1	Hill	

Table A1-1  
BMP Monitoring Locations  
Wright-Patterson AFB, Ohio  
Page 2 of 4

Number of Wells	Sample Location	Area	Reason for Monitoring	COPCs > RG	Monitoring Frequency	Sampling Month(s)	Analytical Parameters	Aquifer Layer	Aquifer Type	Comments
1	OU1 Compliance Monitoring									
2	LF08-MW02C	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
3	LF08-MW05B	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
4	LF08-MW08B	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
5	LF08-MW09A	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
6	LF08-MW10B	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
7	LF08-MW11B	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
8	LF08-MW101	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
9	LF08-MW102	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
10	LF08-MW103	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
11	02-DM-81D-M (LF8)	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
12	02-DM-82-M (LF8)	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
13	02-DM-83S-M (LF8)	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
14	LF10-MW03A	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
15	LF10-MW05B	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
16	LF10-MW06A	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
17	LF10-MW07A	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
18	LF10-MW08A-2	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
19	LF10-MW09C	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
20	LF10-MW10C	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
21	LF10-MW102	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
22	LF10-MW103	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
23	LF10-MW104	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
24	LF10-MW105	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
25	01-DM-102D-M (LF10)	OU1	OU1 ROD	NA	Annual	April	VOCs and Metals	1	Hill	
	LF8/10-EFF	OU1	City of Fairborn Effluent	NA	Quarterly	Jan/April/July/Oct	VOCs and Metals	1	Hill	
1	OU2 Semi-Annual VOCs									
2	OW-1	OU2	OU2 ROD	Benzene	Semi-Annual	April/Oct.	OU2 ROD Parameters	1	Outwash	
3	OW-2	OU2	OU2 ROD	Benzene	Semi-Annual	April/Oct.	OU2 ROD Parameters	1	Outwash	
4	OW-3	OU2	OU2 ROD	Benzene	Semi-Annual	April/Oct.	OU2 ROD Parameters	1	Outwash	
5	OW-4	OU2	OU2 ROD	Benzene	Semi-Annual	April/Oct.	OU2 ROD Parameters	1	Outwash	
6	P18-1	OU2	OU2 ROD	Benzene	Semi-Annual	April/Oct.	OU2 ROD Parameters	1	Outwash	
7	P18-2	OU2	OU2 ROD	Benzene	Semi-Annual	April/Oct.	OU2 ROD Parameters	1	Outwash	
8	NEA-MW20-2S	OU2	OU2 ROD	Benzene	Semi-Annual	April/Oct.	OU2 ROD Parameters	1	Outwash	
9	NEA-MW21-3S	OU2	OU2 ROD	Benzene	Semi-Annual	April/Oct.	OU2 ROD Parameters	1	Outwash	
10	NEA-MW26-3S	OU2	OU2 ROD	Benzene	Semi-Annual	April/Oct.	OU2 ROD Parameters	1	Outwash	
11	NEA-MW28-5S	OU2	OU2 ROD	Benzene	Semi-Annual	April/Oct.	OU2 ROD Parameters	1	Outwash	Rep. Well for P11-1
1	OU2 Periodic VOCs									
2	MW11-1	OU2	OU2 ROD	NA	Semi-Annual	Periodically	OU2 ROD Parameters	1	Outwash	New October '03
3	04-806-M	OU2	OU2 ROD	NA	Semi-Annual	Periodically	OU2 ROD Parameters	1	Outwash	New October '03
4	NEA-MW20-1D	OU2	OU2 ROD	NA	Semi-Annual	Periodically	OU2 ROD Parameters	1	Outwash	New October '04
5	NEA-MW21-2D	OU2	OU2 ROD	NA	Semi-Annual	Periodically	OU2 ROD Parameters	1	Outwash	New October '04
6	NEA-MW22-3S	OU2	OU2 ROD	NA	Semi-Annual	Periodically	OU2 ROD Parameters	1	Outwash	New April '04
7	NEA-MW23-2S	OU2	OU2 ROD	NA	Semi-Annual	Periodically	OU2 ROD Parameters	1	Outwash	New October '02
8	NEA-MW24-2S	OU2	OU2 ROD	NA	Semi-Annual	Periodically	OU2 ROD Parameters	1	Outwash	New October '02
9	NEA-MW25-1D	OU2	OU2 ROD	NA	Semi-Annual	Periodically	OU2 ROD Parameters	1	Outwash	New April '01
10	NEA-MW25-2I	OU2	OU2 ROD	NA	Semi-Annual	Periodically	OU2 ROD Parameters	1	Outwash	New April '01
11	OW-6	OU2	OU2 ROD	NA	Semi-Annual	Periodically	OU2 ROD Parameters	1	Outwash	New April '01

Table A1-1  
BMP Monitoring Locations  
Wright-Patterson AFB, Ohio  
Page 3 of 4

Number of Wells	Sample Location	Area	Reason for Monitoring	COPCs > RG	Monitoring Frequency	Sampling Month(s)	Analytical Parameters	Aquifer Layer	Aquifer Type	Comments
<b>Basewide Semi-Annual VOCs</b>										
1	B59-MW01	B59	VOCs > MCL	NA	Semi-Annual	April/Oct.	VOCs	1	Hill	New April '01
2	B59-MW02	B59	VOCs > MCL	NA	Semi-Annual	April/Oct.	VOCs	1	Hill	New April '01
3	B59-MW03	B59	VOCs > MCL	NA	Semi-Annual	April/Oct.	VOCs	1	Hill	New April '01
4	B59-MW04	B59	VOCs > MCL	NA	Semi-Annual	April/Oct.	VOCs	1	Hill	New April '01
5	B79 C/D-MW01	B79	VOCs > MCL	NA	Semi-Annual	April/Oct.	VOCs	1	Hill	New October '02
6	B79 C/D-MW02	B79	VOCs > MCL	NA	Semi-Annual	April/Oct.	VOCs	1	Hill	New October '02
7	B79 C/D-MW03	B79	VOCs > MCL	NA	Semi-Annual	April/Oct.	VOCs	1	Hill	New October '02
8	B79 C/D-MW04	B79	VOCs > MCL	NA	Semi-Annual	April/Oct.	VOCs	1	Hill	New October '02
9	B55 P-1	B55	B55 LTM	NA	Semi-Annual	April/Oct.	VOCs	1	Outwash	
10	B55 P-2	B55	B55 LTM	NA	Semi-Annual	April/Oct.	VOCs	1	Outwash	
11	B55 P-3	B55	B55 LTM	NA	Semi-Annual	April/Oct.	VOCs	1	Outwash	
12	B55 P-4	B55	B55 LTM	NA	Semi-Annual	April/Oct.	VOCs	1	Outwash	
13	NEA-MW27-31	OU2	VOCs > MCL	PCE	Semi-Annual	April/Oct.	VOCs	1	Outwash	
14	NEA-MW34-2S	OU2	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	1	Outwash	
15	FTA2-MW02C	OU3	VOCs > MCL	Benzene	Semi-Annual	April/Oct.	VOCs	1	Outwash	
16	05-DM-123S	OU3	LF12 LTM	NA	Semi-Annual	April/Oct.	VOCs	1	Outwash	
17	05-DM-123I	OU3	LF12 LTM	NA	Semi-Annual	April/Oct.	VOCs	1	Outwash	
18	05-DM-123D	OU3	LF12 LTM	NA	Semi-Annual	April/Oct.	VOCs	1	Outwash	
19	07-520-M	OU3	HI > 1	NA	Semi-Annual	April/Oct.	VOCs (Metals Ann.)	1	Outwash	Replacement
20	BMP-OU4-01B-60	OU4	OU4 Downgradient Mon.	NA	Semi-Annual	April/Oct.	VOCs	2	Outwash	New Oct. '98
21	BMP-OU4-01C-84	OU4	OU4 Downgradient Mon.	NA	Semi-Annual	April/Oct.	VOCs	3	Outwash	New Oct. '98
22	OU4-MW-02A	OU4	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	1	Outwash	
23	OU4-MW-02B	OU4	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	2	Outwash	
24	OU4-MW-02B	OU4	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	2	Outwash	
25	OU4-MW-03C	OU4	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	3	Outwash	
26	OU4-MW-04A	OU4	VOCs > MCL	viny chloride	Semi-Annual	April/Oct.	VOCs	1	Outwash	Sub for MW-04A (Oct 02)
27	OU4-MW-04B	OU4	VOCs > MCL	NA	Semi-Annual	April/Oct.	VOCs	1	Outwash	
28	OU4-MW-12B	OU4	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	2	Outwash	
29	CW04-060	OU5	FAA-A/GW ROD	NA	Semi-Annual	April/Oct.	VOCs	2	Outwash	
30	CW05-055	OU5	FAA-A/GW ROD	TCE	Semi-Annual	April/Oct.	VOCs	2	Outwash	
31	CW05-085	OU5	FAA-A/GW ROD	TCE	Semi-Annual	April/Oct.	VOCs	2	Outwash	
32	CW07-055	OU5	FAA-A/GW ROD	NA	Semi-Annual	April/Oct.	VOCs	2	Outwash	
33	CW10-055	OU5	FAA-A/GW ROD	NA	Semi-Annual	April/Oct.	VOCs	2	Outwash	
34	HD-11	OU5	FAA-A/GW ROD	TCE	Semi-Annual	April/Oct.	VOCs	2	Outwash	
35	HD-12M	OU5	FAA-A/GW ROD	NA	Semi-Annual	April/Oct.	VOCs	2	Outwash	
36	HD-12S	OU5	FAA-A/GW ROD	PCE	Semi-Annual	April/Oct.	VOCs	1	Outwash	
37	Mad Mon 127 (HD-13D)	OU5	FAA-A/GW ROD	NA	Semi-Annual	April/Oct.	VOCs	2	Outwash	
38	HD-13S	OU5	FAA-A/GW ROD	NA	Semi-Annual	April/Oct.	VOCs	1	Outwash	
39	HSA-4A (MW131M)	OU5	FAA-A/GW ROD	TCE	Semi-Annual	April/Oct.	VOCs	2	Outwash	
40	HSA-4B (MW131S)	OU5	FAA-A/GW ROD	NA	Semi-Annual	April/Oct.	VOCs	2	Outwash	
41	HSA-5 (MW132S)	OU5	FAA-A/GW ROD	PCE, TCE	Semi-Annual	April/Oct.	VOCs	1	Outwash	
42	CW03-77	OU8	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	3	Outwash	Replacement
43	CHP4-MW01	OU10	VOCs > MCL	PCE, TCE	Semi-Annual	April/Oct.	VOCs	1	Outwash	
44	GR-330	OU10	VOCs > MCL	PCE	Semi-Annual	April/Oct.	VOCs	1	Outwash	
45	GR-333	OU10	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	1	Outwash	
46	GR-334	OU10	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	3	Outwash	
47	OU10-MW-03S	OU10	VOCs > MCL	PCE	Semi-Annual	April/Oct.	VOCs (Metals Ann.)	1	Outwash	
48	OU10-MW-06D	OU10	VOCs > MCL	PCE	Semi-Annual	April/Oct.	VOCs	3	Outwash	
49	OU10-MW-06S	OU10	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs (Metals Ann.)	2	Outwash	
50	OU10-MW-11D	OU10	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	2	Outwash	
51	OU10-MW-11S	OU10	VOCs > MCL	PCE	Semi-Annual	April/Oct.	VOCs	2	Outwash	
52	OU10-MW-19D	OU10	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	2	Outwash	
53	OU10-MW-21S	OU10	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	1	Outwash	
54	OU10-MW-25S	OU10	VOCs > MCL	PCE	Semi-Annual	April/Oct.	VOCs	1	Outwash	
55	NEA-MW37-1D	OU10	VOCs > MCL	Benzene	Semi-Annual	April/Oct.	VOCs	2	Outwash	
56	23-578-M	OU10	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	1	Outwash	Added

**Table A1-1**  
**BMP Monitoring Locations**  
**Wright-Patterson AFB, Ohio**  
**Page 4 of 4**

Number of Wells	Sample Location	Area	Reason for Monitoring	COPCs > RG	Monitoring Frequency	Sampling Month(s)	Analytical Parameters	Aquifer Layer	Aquifer Type	Comments
1	Basewide Annual VOCs									
2	BS6 P-1	BS6	BS6 LTM	NA	Annual	April	VOCs	1	Hill	
3	BS6 P-2	BS6	BS6 LTM	NA	Annual	April	VOCs	1	Hill	
4	SP11-MW01	FAA-B	FAA-B/GW ROD	vinyl chloride	Annual	April	VOCs	1	Hill	
5	SP11-MW02	FAA-B	FAA-B/GW ROD	vinyl chloride	Annual	April	VOCs	1	Hill	
6	SP11-MW03	FAA-B	FAA-B/GW ROD	vinyl chloride	Annual	April	VOCs	1	Hill	
7	SP11-MW07	FAA-B	FAA-B/GW ROD	vinyl chloride	Annual	April	VOCs	1	Hill	
8	SP11-MW08	FAA-B	FAA-B/GW ROD	vinyl chloride	Annual	April	VOCs	1	Hill	
9	SP11-MW09	FAA-B	FAA-B/GW ROD	vinyl chloride	Annual	April	VOCs	1	Hill	
10	EFD22-MW03	FAA-B	FAA-B/GW ROD	vinyl chloride	Annual	April	VOCs	1	Hill	
11	OU8-MW-02S	OU8	VOCs > MCL	vinyl chloride	Annual	April	VOCs	1	Hill	
12	P6-1	OU8	VOCs > MCL	Benzene	Annual	April	VOCs	1	Hill	
13	EFD04-MW06	OU8	VOCs > MCL	Benzene	Annual	April	VOCs	1	Hill	
14	EFD09-M575	OU8	VOCs > MCL	Benzene, 1,2-DCA TCE, vinyl chloride	Annual	April	VOCs	1	Hill	
1	Basewide Annual Metals									
2	14-554-M	OU2	Metals > RG	Sb, Cr, Ni	Annual	April	Metals	1	Outwash	
3	NEA-MW01-1S	OU2	Metals > RG	Al, Cr, Co, Mn, Ni, V	Annual	April	Metals	1	Outwash	
4	NEA-MW02-2S	OU2	Metals > RG	Al, Cr, Co, Ni, V	Annual	April	Metals	1	Outwash	
5	NEA-MW20-2S	OU2	Metals > RG	Al, Co, Mn, V	Annual	April	Metals	1	Outwash	
6	NEA-MW23-2S	OU2	Metals > RG	Al, Co, Pb, Ni, Ti, V, Zn	Annual	April	Metals	1	Outwash	
7	NEA-MW24-2S	OU2	Metals > RG	Al, Cr, Co, Mn, Ni, V, Zn	Annual	April	Metals	1	Outwash	
8	NEA-MW31-3S	OU2	Metals > RG	Al, Co, Mn, V, Zn	Annual	April	Metals	1	Outwash	
9	07-520-M	OU3	HI > 1	NA	Annual	April	Metals	1	Outwash	Replacement
10	CW15-055	OU5	Metals > RG	Mn, V, Zn	Annual	April	Metals	2	Outwash	
11	OU8-MW-02D	OU8	Metals > RG	Mn, V, Zn	Annual	April	Metals	2	Hill	
12	OU8-MW-23D	OU8	Metals > RG	Al, Mn, Zn	Annual	April	Metals	2	Hill	
13	4-2	OU9	Metals > RG	Al, Cr, Co, Ni, V	Annual	April	Metals	1	Hill	
14	EFD23-MW02	OU9	Metals > RG	Se, Ti, V	Annual	April	Metals	1	Hill	
15	EFD23-MW03	OU9	Metals > RG	Al, Mn, V, Zn	Annual	April	Metals	1	Hill	
16	EFD28-MW01	OU9	Metals > RG	Al, Cr, Ni, Zn	Annual	April	Metals	1	Hill	
17	25-582-M	OU10	Metals > RG	Al, Cr, Co, Pb, Mn, Ni, V, Zn	Annual	April	Metals	1	Outwash	
18	25-583-M	OU10	Metals > RG	Cr, Co, Ni, V	Annual	April	Metals	1	Outwash	
19	25-584-M	OU10	Metals > RG	Cr, Co, Ni	Annual	April	Metals	1	Outwash	
20	OU10-MW-03S	OU10	Metals > RG	Co, Mn, Zn	Annual	April	Metals, VOCs	1	Outwash	
21	OU10-MW-06S	OU10	Metals > RG	Al, Mn, V	Annual	April	Metals, VOCs	2	Outwash	
22	OU10-MW-10I	OU10	NA	NA	Annual	April	Metals	2	Outwash	Rep. Well for 20-566
1	Removed Wells									
2	LF12-MW15A	OU3	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	1	Outwash	Abandoned
3	04-518-M	OU2	OU2 ROD	Benzene	Semi-Annual	April/Oct.	OU2 ROD Parameters	1	Outwash	Abandoned
4	OU8-MW-10D	FAA-B	FAA-B Remedial Action	vinyl chloride	Annual	October	VOCs	1	Hill	Abandoned
5	20-566-M	OU10	Metals > RG	Cr, Co, Ni	Annual	April	Metals	1	Outwash	Abandoned
6	P11-1	OU2	OU2 Draft ROD	Benzene	Semi-Annual	April/Oct.	OU2 ROD Parameters	1	Outwash	Replaced
7	CW01-35	OU8	VOCs > MCL	TCE	Semi-Annual	April/Oct.	VOCs	2	Outwash	Abandoned
8	OU8-MW-12D	OU8	Metals > RG	Al, Mn, V, Zn	Annual	April	Metals	2	Outwash	Abandoned
9	CHP05-M581	OU9	Metals > RG	Ba, Mn, Ti	Annual	April	Metals	1	Hill	Damaged

RG = Remediation Goal  
NA = Location included for remedial action monitoring  
OU1 ROD Parameters = VOCs, SVOCs, dioxin/furans, pest./PCB, metals, CN, ammonia  
OU2 ROD parameters = BTEX, nitrates, sulfate, DO, ferrous iron  
GW ROD = Groundwater Record of Decision

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**Table A1-2**  
**Basewide LTM Program**  
**Monitoring Well Inventory**  
**Wright-Patterson AFB, Ohio**  
**Page 1 of 3**

Sample Location	Area	Analytical Parameters	Sampling Frequency	Existing Pump Type	Wellhead Completion (AG or FL)	Top of Screened Interval (ft, bgs)	Length of Screen (ft)	Bottom of Well (ft, bgs)	Sounded Depth (ft, TOC)	Borehole Depth (ft, TOC)
B59-MW01	Bldg. 59	VOCs	April/Oct.	GEOGUARD	FL	5	10	14.5	NA	14.5
B59-MW02	Bldg. 59	VOCs	April/Oct.	GEOGUARD	FL	20.5	10	30.9	NA	30.9
B59-MW03	Bldg. 59	VOCs	April/Oct.	GEOGUARD	FL	10	10	19.5	NA	19.5
B59-MW04	Bldg. 59	VOCs	April/Oct.	GEOGUARD	FL	7	10	17	NA	17
B79C/D-MW01	Bldg. 79	VOCs	April/Oct.	GEOGUARD	FL	16	10	25	24.77	27
B79C/D-MW02	Bldg. 79	VOCs	April/Oct.	GEOGUARD	FL	18.5	10	28	28.18	29
B79C/D-MW03	Bldg. 79	VOCs	April/Oct.	GEOGUARD	FL	21	5	25	25.04	28
B79C/D-MW04	Bldg. 79	VOCs	April/Oct.	GEOGUARD	FL	10	10	22	22.05	24
BS6 P-1	BS6	VOCs	April	GEOGUARD	FL	8	10	18	NA	20
BS6 P-2	BS6	VOCs	April	GEOGUARD	FL	5	10	15	NA	15.5
BS5 P-1	BS5	VOCs	April/Oct.	GEOGUARD	FL	28	10	38	NA	40
BS5 P-2	BS5	VOCs	April/Oct.	GEOGUARD	FL	30	10	40	NA	42
BS5 P-3	BS5	VOCs	April/Oct.	GEOGUARD	FL	33	10	43	NA	45
BS5 P-4	BS5	VOCs	April/Oct.	GEOGUARD	FL	45	5	50	NA	52
SP11-MW01	FAA-B	VOCs	April	GEOGUARD	FL	22	5	27.0	NA	35
SP11-MW02	FAA-B	VOCs	April	GEOGUARD	FL	12	10	22.0	NA	36
SP11-MW03	FAA-B	VOCs	April	GEOGUARD	FL	8	5	13.0	NA	37
SP11-MW07	FAA-B	VOCs	April	GEOGUARD	FL	13	10	22.5	NA	23
SP11-MW08	FAA-B	VOCs	April	GEOGUARD	FL	22	10	32.0	NA	35
SP11-MW09	FAA-B	VOCs	April	GEOGUARD	FL	8	10	17.5	NA	18
EFD22-MW03	FAA-B	VOCs	April	GEOGUARD	FL	14.7	10	24.7	NA	27
NEA-MW27-31	OU2	VOCs	April/Oct.	GEOGUARD	AG	40.8	4.7	45.5	NA	50
NEA-MW34-2S	OU2	VOCs	April/Oct.	GEOGUARD	AG	8.5	9.9	18.4	NA	21
14-554-M	OU2	Metals	April	GEOGUARD	AG	5.9	10	15.9	17.05	20
NEA-MW01-1S	OU2	Metals	April	GEOGUARD	AG	13.4	10	23.4	25.5	19
NEA-MW02-2S	OU2	Metals	April	GEOGUARD	AG	7	10	17.0	19.5	19
NEA-MW20-2S	OU2	Metals	April	GEOGUARD	AG	7.8	9.9	17.7	NA	20
NEA-MW23-2S	OU2	Metals	April	GEOGUARD	AG	8.25	4.7	13.0	NA	15
NEA-MW24-2S	OU2	Metals	April	GEOGUARD	FL	11.9	9.7	21.6	NA	24
NEA-MW31-3S	OU2	Metals	April	GEOGUARD	AG	12.9	9.7	22.6	NA	25

**Table A1-2**  
**Basewide LTM Program**  
**Monitoring Well Inventory**  
**Wright-Patterson AFB, Ohio**  
**Page 2 of 3**

Sample Location	Area	Analytical Parameters	Sampling Frequency	Existing Pump Type	Wellhead Completion (AG or FL)	Top of Screened Interval (ft, bgs)	Length of Screen (ft)	Bottom of Well (ft, bgs)	Sounded Depth (ft, TOC)	Borehole Depth (ft, TOC)
FTA2-MW02C	OU3	VOCs	April/Oct.	GEOGUARD	AG	9.6	9.59	19.2	NA	20
05-DM-123S	OU3	VOCs	April/Oct.	GEOGUARD	AG	5	10	15.0	NA	15
05-DM-123I	OU3	VOCs	April/Oct.	GEOGUARD	AG	19.75	5	24.8	NA	24.75
05-DM-123D	OU3	VOCs	April/Oct.	GEOGUARD	AG	26.8	5	31.8	NA	31.8
07-520-M	OU3	VOCs/ Metals	April/Oct.	GEOGUARD	AG	5.1	10	15.1	NA	15.1
BMP-OU4-01B-60	OU4	VOCs	April/Oct.	GEOGUARD	FL	50	10	60.0	NA	60
BMP-OU4-01C-84	OU4	VOCs	April/Oct.	GEOGUARD	FL	74	10	85.0	NA	85
OU4-MW-02A	OU4	VOCs	April/Oct.	Well Wizard	AG	7	10	17.0	NA	18.5
OU4-MW-02B	OU4	VOCs	April/Oct.	Well Wizard	AG	46.1	10	56.1	NA	58
OU4-MW-03B	OU4	VOCs	April/Oct.	Well Wizard	AG	57	5	62.0	NA	64
OU4-MW-03C	OU4	VOCs	April/Oct.	Well Wizard	AG	73.53	10	83.5	NA	95
OU4-MW-04B	OU4	VOCs	April/Oct.	Well Wizard	AG	30.5	10	43.0	NA	43
OU4-MW-12B	OU4	VOCs	April/Oct.	Well Wizard	AG	39.94	10	49.9	NA	105
CW04-060	OU5	VOCs	April/Oct.	GEOGUARD	AG	49.7	10	59.7	NA	60
CW05-055	OU5	VOCs	April/Oct.	GEOGUARD	AG	45	10	57.0	NA	57
CW05-085	OU5	VOCs	April/Oct.	GEOGUARD	AG	75	10	85.0	NA	85
CW07-055	OU5	VOCs	April/Oct.	GEOGUARD	AG	44.5	10	55.0	NA	55
CW10-055	OU5	VOCs	April/Oct.	GEOGUARD	AG	45	10	95.0	NA	95
HD-11	OU5	VOCs	April/Oct.	GEOGUARD	AG	71	10	85.0	NA	85
HD-12M	OU5	VOCs	April/Oct.	GEOGUARD	AG	44	10	76.0	NA	76
HD-12S	OU5	VOCs	April/Oct.	GEOGUARD	AG	14	10	25.0	NA	25
HD-13S	OU5	VOCs	April/Oct.	GEOGUARD	AG	22.5	10	33.0	NA	33
MAD-MON127 (HD-13D)	OU5	VOCs	April/Oct.	GEOGUARD	AG	96	10	106.0	NA	107
MW131M (HSA-4A)	OU5	VOCs	April/Oct.	GEOGUARD	AG	58.3	10	68.3	NA	68.3
MW131S (HSA-4B)	OU5	VOCs	April/Oct.	GEOGUARD	AG	22.3	10	32.3	NA	32.3
MW132S (HAS-5)	OU5	VOCs	April/Oct.	GEOGUARD	AG	38.5	10	48.5	NA	48.5
CW15-055	OU5	Metals	April	GEOGUARD	AG	45	10	55.0	NA	95
CW3-77	OU8	VOCs	April/Oct.	GEOGUARD	AG	66.8	10	76.8	NA	76.8
OU8-MW-02S	OU8	VOCs	April	Well Wizard	FL	19	10	29.0	NA	29.2

**Table A1-2**  
**Basewide LTM Program**  
**Monitoring Well Inventory**  
**Wright-Patterson AFB, Ohio**  
**Page 3 of 3**

Sample Location	Area	Analytical Parameters	Sampling Frequency	Existing Pump Type	Wellhead Completion (AG or FL)	Top of Screened Interval (ft, bgs)	Length of Screen (ft)	Bottom of Well (ft, bgs)	Sounded Depth (ft, TOC)	Borehole Depth (ft, TOC)
P6-1	OU8	VOCs	April	Well Wizard	FL	18.22	9.57	27.8	NA	30.5
P6-2	OU8	VOCs	April	Well Wizard	FL	17.77	9.68	27.5	NA	29
OU8-MW-02D	OU8	Metals	April	Well Wizard	FL	64	10	74.0	NA	79.5
OU8-MW-23D	OU8	Metals	April	Well Wizard	FL	41.7	10	51.7	NA	56
EFD04-MW06	OU9	VOCs	April	GEOGUARD	AG	25	10	35.0	NA	36
EFD09-M575	OU9	VOCs	April	GEOGUARD	AG	5.4	10	15.4	16.03	16
P4-2	OU9	Metals	April	GEOGUARD	AG	5.8	10.2	16.0	NA	18
EFDZ3-MW02	OU9	Metals	April	GEOGUARD	AG	10	10	20.0	24.78	22
EFDZ3-MW03	OU9	Metals	April	GEOGUARD	AG	12	10	22.0	26.25	24
EFDZ8-MW01	OU9	Metals	April	GEOGUARD	AG	30	10	40.0	NA	42
CHP4-MW01	OU10	VOCs	April/Oct.	GEOGUARD	FL	36	10	46.0	NA	36
GR-330	OU10	VOCs	April/Oct.	GEOGUARD	AG	39.5	10	49.5	50.8	50
GR-333	OU10	VOCs	April/Oct.	Redi-Flo II	AG	25.1	10	35.1	NA	36
GR-334	OU10	VOCs	April/Oct.	Redi-Flo II	AG	145	10	155.0	NA	155
OU10-MW-03S	OU10	VOCs, Metals	April/Oct.	GEOGUARD	FL	27.8	10	37.8	NA	38
OU10-MW-06D	OU10	VOCs	April/Oct.	GEOGUARD	FL	140.4	10	150.4	150	151
OU10-MW-06S	OU10	VOCs, Metals	April/Oct.	GEOGUARD	FL	52	10	62.0	60.35	63
OU10-MW-11D	OU10	VOCs	April/Oct.	GEOGUARD	FL	87.9	10	97.9	NA	95
OU10-MW-11S	OU10	VOCs	April/Oct.	GEOGUARD	FL	53.3	10	63.3	NA	63
OU10-MW-19D	OU10	VOCs	April/Oct.	GEOGUARD	FL	72.1	10	82.1	NA	80
OU10-MW-21S	OU10	VOCs	April/Oct.	GEOGUARD	FL	15.5	10	25.5	25.5	25
OU10-MW-25S	OU10	VOCs	April/Oct.	GEOGUARD	FL	36	10	46.0	NA	45
23-578-M	OU10	VOCs	April/Oct.	GEOGUARD	AG	31.5	10	41.5	NA	41.5
NEA-MW37-1D	OU10	VOCs	April/Oct.	GEOGUARD	AG	84.7	9.9	94.6	NA	97
OU10-MW-10I	OU10	Metals	April	GEOGUARD	AG	74.8	10	84.8	NA	82
25-582-M	OU10	Metals	April	GEOGUARD	AG	25.9	10	35.9	36.28	95
25-583-M	OU10	Metals	April	GEOGUARD	AG	13	10	23.0	24.3	23
25-584-M	OU10	Metals	April	GEOGUARD	AG	15.8	10	25.8	27.78	26

AG = Above ground  
FL = Flush-mounted

NA = Not available, pump in well

**A2      Operable Unit 1 Compliance Monitoring Objectives and  
Basewide Procedures Summary**

**Table A2-1      OU1 Remedial Action Groundwater Quality  
Monitoring and Sample Handling Criteria**

**Table A2-2      OU1 Quarterly Effluent Discharge Line  
Sampling Program**

**Figure A2-1      Leachate Collection System Details**

## **Appendix A2**

### **OU1 Compliance Monitoring Objectives and Basewide Procedures Summary**



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A2-2	OU1 Quarterly Effluent Discharge Line Sampling Program

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<b><i>Figure</i></b>	<b><i>Title</i></b>
A2-1	Leachate Collection System Details

## **1.0 Introduction**

The OU1 compliance monitoring program consists of quarterly monitoring of landfill gas (methane) and groundwater levels and annual and semiannual groundwater sampling. The annual and semiannual groundwater sampling objectives are 1) to confirm that contaminants have not migrated beyond the extent detected during the RIs, and 2) to determine whether analytical compliance levels set forth in the ROD have been achieved. The objective of quarterly landfill gas monitoring is to determine whether the landfill gas collection and treatment system has established a capture zone that extends outside the landfill boundaries and prevents migration of landfill gas beyond the landfill boundaries. The objective of quarterly groundwater level monitoring at LFs 8 and 10 is to evaluate the effectiveness of the leachate extraction systems in providing hydraulic containment that prevents the migration of contamination beyond the boundaries of the landfills. Figure A2-1 presents a schematic of the leachate collection system pumps. Overall, data collected as part of the OU1 LTM program will form a data set to be used to evaluate the progress of the ongoing remedial efforts at OU1 and to determine whether the selected remedy identified in the ROD is protective of human health and the environment.

## **2.0 OU1 Groundwater Sampling Procedures**

Groundwater sampling activities at OU1 have been conducted in accordance with the procedures presented in the O&M Plan for LFs 8 and 10 (Kelchner, 1997), with the exception of the quarterly sampling of the leachate extraction wells. The OU1 sampling program was revised for the October 2000 sampling event per the Draft Amendment to the OU1 SPMP (IT, 2000a). Revisions to the program include deletion of the quarterly extraction well sampling and deletion of the extraction wells from the annual sampling programs. The quarterly sampling program has been replaced with semiannual sampling of selected downgradient monitoring wells in accordance with Ohio Administrative Code (OAC) 3745-27-10. The semiannual monitoring well network is a subset of the annual monitoring well network. Table A1-1 in Appendix A1 has been revised to reflect the new monitoring well network.

### **2.1 Monitoring Well Purging and Sampling Procedures**

Prior to the commencement of monitoring well purging, the background and wellhead area at each location was screened with a photoionization detector (PID) to monitor for the presence of airborne VOCs. After VOC screening, static water levels were measured from the top of the inner casing to the nearest 0.01 foot and recorded. Monitoring wells were purged and sampled by the micropurge low flow-rate technique using dedicated pneumatic pumps in accordance with the addendum to FP 5-6 (ES, 1990). Wells with insufficient water columns for dedicated pumps were

hand bailed with a Teflon<sup>®</sup> bailer. Purge water was containerized and transported back to a central staging area. Purge water from all areas of the Base were containerized together for disposal by a permitted treatment and disposal facility (Section 6.0).

### ***2.1.1 Well Purging: Micropurge Method***

The majority of the monitoring wells were purged and sampled with dedicated bladder (pneumatic) pumps using the micropurge method. The micropurge method has been selected for groundwater sampling to maintain low flow rates and a constant dynamic water level and to minimize the drawdown of the static water column above the depth interval being sampled. The pumps are positioned in the lower portion of the screened interval and pumped at sufficiently low flow rates to maintain water levels with only minimal drawdown. Groundwater is drawn directly from within the screened interval of the well where the pump inlet is positioned. All dedicated pneumatic sampling pumps are 1.66 inches in diameter and of either single or two-stage construction. Pump bodies are stainless steel with Teflon<sup>®</sup> internal bladders. The groundwater sample from soil vapor monitoring point LF08-MP013 was collected with a peristaltic pump using the micropurge method.

Groundwater quality was considered representative of the surrounding geologic formation when the field parameters and the pumping water level in the well had stabilized.

### ***2.1.2 Field Parameters***

Purge water was monitored in the field to indicate when the groundwater was representative of the surrounding water bearing zone. The field parameters of temperature, pH, specific conductivity, DO, ORP, and turbidity were measured using Horiba U-22 water quality meters equipped with flow-through cells. Measurements were collected every five minutes during purging until three successive sets of stabilized readings were obtained. Readings were considered stabilized in accordance with FP 5-6 when the physical and chemical parameters were within the following limits:

- pH was within  $\pm 0.2$  Standard Units
- Water temperature was consistent within  $\pm 1$  degree Celsius ( $^{\circ}\text{C}$ )
- Specific conductance was consistent within  $\pm 50$  microSiemens per centimeter ( $\mu\text{S}/\text{cm}$ ) for readings  $< 500 \mu\text{S}/\text{cm}$ , or  $\pm 10\%$  for specific conductance  $> 500 \mu\text{S}/\text{cm}$

If turbidity in the well water exceeded 25 Nephelometric Turbidity Units (NTUs) (FP 5-6) after the above parameters were stabilized, pumping rates were lowered to the lowest possible rate and additional water was purged until the discharge water cleared. Measurements for DO and ORP are monitored for information purposes, but are not included in the stabilization criteria for WPAFB groundwater sampling.

A well was also considered to be sufficiently purged if it went dry repeatedly during purging. If a well still went dry after continued lowering of the pumping rate to obtain a constant water level, it was sampled after sufficient water had recharged the well (FP 5-5). Low recharging wells that were purged dry are typically screened in material of low permeability or have only a small portion of the screen intersecting the saturated zone. In either case, recharge water entering the well will be of low velocity and turbulence. Therefore, the loss of volatiles due to cascading of water is expected to be minimal.

### **2.1.3 Groundwater Sampling Methods**

Immediately after purging, groundwater samples were collected following FP 6-5, using the same dedicated pumps. The analytical laboratory provided new, certified clean sample containers, including volatile organic aromatic (VOA) vials with Teflon<sup>®</sup>-lined septum caps prepreserved with hydrochloric acid; poly bottles prepreserved with either nitric, sodium hydroxide, or sulfuric acids; and amber glass bottles without preservatives. Sample preservation, containerization, and holding time requirements are presented in Table A2-1. Samples were collected by first filling the VOA vials, then filling the remaining sample bottles. Groundwater samples for VOC analyses were collected by filling each sample container directly from the dedicated Teflon<sup>®</sup>-lined discharge tubes for each well. Samples for total metals analysis were field checked for the correct pH by pouring a small amount of sample out of the container onto pH paper. VOC samples were not checked for pH to preserve the zero headspace of the filled VOC vials.

### **2.1.4 Sample Identification**

Groundwater samples for VOC analysis were preserved, collected, and handled in accordance with Section 4.0 of Volume 1 and FP 6-12 of Volume 2, Appendix C of the *IRP Project Work Plan for Remedial Investigation and Feasibility Studies at WPAFB* (ES, 1990). Throughout the LTM program, each sample has been designated with a unique sample number that identifies the location, type of sample collected, and sampling event date. Shaw Environmental's electronic data management system, ShawView, was used for the first time during the October 2002 sampling event. With the incorporation of ShawView, a new sample number code was devised for

all future sample events. Each sample number is unique and standing alone only identifies the general sample area on Base, the event and the sample type. Within the database, each sample number is associated with a sample location, type, purpose, and event before sampling is started. The new ShawView sample number format is as follows:

- Sample Number: For all samples collected during the October, April, or quarterly (January and July) events, the following sample number identification will be used:

WXYzzzz                      where:

“W” indicates the area of the Base from which the sample was collected. “K” will be used for OU1 samples, “T” for OU2 samples, and “L” for LTM program samples. “X” indicates the event. “H” October and “E” for April events; “Q” for samples collected on a quarterly basis (only the effluent at OU1 will use this identifier). “Y” indicates the sample type. “3” will be for groundwater samples; “6” will be for soil gas samples.

“zzzz” will be numbers assigned to wells in numerical order.

An example sample number for a LTM program sample collected during the October event would be: LH30001; where “L” signifies the Long-Term Monitoring Program, “H” signifies the event (October), “3” signifies the sample type (groundwater), and the “zzzz” identifies a unique sample number assigned to one well location. For example, since the October 2002 round was the first time this system was used, the LTM program sample numbers from this round were LH30001 through LH30076 [including quality assurance/quality control (QA/QC) samples]. For all future sampling events, the sample numbers will continue in sequence from the last utilized number in the previous October or April round. So LTM program samples from October 2003 will begin with sample number LH30077 and samples from April 2003 will begin with LE30001.

- Sample Location Identification - Each location is identified by a unique designation. The following designators were used to show the location of each well: “LTM” (Long-Term Monitoring Program); “OU” (Operable Unit); “LF” (Landfill); “CHP” (Central Heating Plant); “WP” (Wright-Patterson); “NEA” (Northeast Area); “EFDZ” (Earthfill Disposal Zone); “xx-0yy-M” Phase 2, Stage 1; site No.-well No.; “xx-5yy-M” Phase 2, Stage 2, site No.-well No.; “CW” OU5 off-site well; “GR” US Geological Survey; “DM” Dames and Moore; “HD” Huffman Dam (City of Dayton); “HSA” Hollow-Stem Auger (City of Dayton); “SP11” (Spill Site 11, [FAA-B]); “B” Building; “BS” Burial Site; and “FTA2” (Fire Training Area 2).
- Groundwater Sampling Event Number - Prior to the incorporation of ShawView, the following code was used to identify the sampling event in which the sample was collected: For the April 2002 event, “-0402” followed the well ID to indicate the associated round. In ShawView, when the sample number is created, it is automatically associated with the event within the database. Therefore, the only



designator identifying the event within the sample number is the "H," "E," or "Q" for October, April, and Quarterly Effluent, respectively.

- **Sample Purpose** - Prior to the incorporation of ShawView, duplicate samples were identified with "5" preceding the sampling event designator. Matrix Spike and Matrix Spike Duplicates had "MS" and "MSD," respectively, appended after the well number. Using ShawView, all samples have a unique sample number including duplicates, ambient blanks, and trip blanks, with the exception of MS and MSD samples. For example, well B59-MW03 had a regular and duplicate sample collected during the October 2002 round with associated sample numbers LH30009 for the duplicate and LH30010 for the regular. MS and MSD samples have the same sample number as the regular sample with "-MS" or "-MSD" appended at the end of the sample number. For example, well B79C/D-MW01 had the sample number LH30012 during the October 2002 round. The associated MS/MSD samples collected from that well were labeled LH30012-MS and LH30012-MSD.
- **Sample Names** - The sample name pulls all the pertinent sample information together. ShawView automatically generates a sample name by combining the sample location + sample type + sample number + sample purpose. For example, the duplicate sample collected at well B59-MW03 had a sample name of "B59-MW03-GW-LH30009-FD". This sample name is printed on the CofCs and sample collection logs generated in ShawView.

As a check on the quality of field activities (including sample collection, containerization, shipping, and handling), trip blanks, ambient blanks, and field duplicates were collected with specified frequencies following the Project Work Plan (PWP) guidelines. The frequency with which these samples were taken, and number of such samples, is discussed in the following sections. Sampling equipment consisting of pumps, discharge tubing and bailers are dedicated for each well; therefore, equipment rinsate samples were not required.

### **2.1.5 Sample Handling**

Samples were handled in accordance with procedures in Section 5.11.3 of Volume 1 and FP 6-12 of Volume 2, Appendix C, of the PWP (ES, 1990). The Field Team Leaders entered sample numbers, descriptions, and other pertinent information into field logbooks. In addition, CofC records were completed for each sample. CofC records contain sample numbers, date and time of collection, sample names, container types and volumes, preservatives, and analytical parameters. CofC records for the current sampling event are organized by area: OU1 CofC are presented in Appendix C2, OU2 CofC in Appendix F2, and Basewide LTM CofC in Appendix I.

All containers were labeled with the sample number, collector's initials, date and time of collection, sample location, preservatives, and analytical parameters requested. Samples for chemical analysis were kept at approximately 4°C by placing the sample containers on ice in insulated coolers until relinquished to the laboratory courier. Generally, samples were held overnight in a secured sample cooler with custody seals for pickup by the laboratory courier. Samples were then shipped by overnight carrier to the Severn Trent Laboratory located in North Canton, Ohio, for analysis following methods listed in Table A2-1. All samples were maintained under direct control of the sampling team members or Site Coordinator until custody was transferred to the laboratory courier.

### ***2.1.6 Field Quality Control Samples***

As a quality check on the field activities (including sample collection, containerization, shipping, and handling), trip blanks, ambient blanks, and field duplicates were collected with specified frequencies following the PWP (ES, 1990). The frequency with which these samples were taken and the number of such samples is discussed below, as well as QA/QC requirements for field analyses. The pumping system for each monitoring well was dedicated and a rinsate blank was not required.

The QA/QC program, implemented in the field to ensure that valid data was obtained during sampling, was performed in accordance with Section 9.0 of the Quality Assurance Project Plan, Volume 2 of the PWP (ES, 1990). The analytical QA/QC sampling protocol is summarized as follows:

<u>QA/QC Sample Type</u>	<u>Frequency</u>
Trip Blanks	1 per VOC cooler per shipping day
Field Duplicates	1 every 10 samples
Ambient Blank	1 per sampling event
Matrix Spikes	1 every 20 samples
Matrix Spike Duplicates	1 every 20 samples

Trip blanks were collected daily and were kept with the VOC samples during handling and shipping to the laboratory.

## **2.2 Groundwater Sampling Analytical Methods**

Groundwater samples were analyzed for VOCs by USEPA Method 8260B, with the additional reporting of MTBE. USEPA Method 8260 was originally specified for VOC analysis for the Baseline Basewide Monitoring in April 1998 (IT, 1999c); however, it was determined that Method 8260 could not achieve the low detection limits required for some of the OU1 parameters or for vinyl chloride. USEPA Method 524.2 for drinking water replaced Method 8260 for all VOC analyses to achieve the lower detection limits; however, using this method required the primary laboratory to ship samples to an affiliate laboratory for analysis. Subsequently, Method 8260B was developed because it achieves the lower detection limits and because samples can be analyzed at the primary laboratory, improving reporting time. Method 8260B will be used for VOC analyses for all subsequent sampling events.

## **3.0 OU1 ROD Compliance Levels**

OU1 monitoring well sampling results are compared to compliance levels that were established to provide acceptable exposure levels that are protective of human health and the environment and include the MCL and/or the ROD compliance level (i.e., a risk-based concentration level) for each COC. The ROD compliance levels were based on back-calculating the risk associated with potential household use of the landfill leachate (ROD, Section I; WPAFB, 1993). When both an MCL and a ROD compliance level exist for a COC, the ROD compliance level was used for evaluation. The ROD compliance levels are typically more conservative criteria than the MCLs and are the current ROD criteria for system shut-off. If no ROD compliance levels are exceeded by the COCs after one year of groundwater monitoring, the leachate collection and treatment system will be shut off. The MCLs are provided in this report for information purposes.

## **4.0 OU1 Landfill Gas Monitoring**

The following sections present an overview of the landfill gas monitoring effort at OU1.

### **4.1 OU1 Landfill Gas Monitoring Locations**

The permanent OU1 landfill gas monitoring probes, punchbar monitoring points, and LF10 GBT are monitored in accordance with the ROD. Monitoring was performed quarterly for the first 5 years of the post-remedial action construction period and will be conducted semiannually for the period between 5 years and the director's granting authorization to cease monitoring. As described in Section 2.1, the purpose of OU1 landfill gas monitoring is to determine the effectiveness of the landfill gas collection system in establishing a capture zone that extends outside the landfill boundaries. The existing landfill gas monitoring probes and permanent

punchbar locations at LFs 8 and 10 are located within the surrounding Base residential property lines to monitor for potentially migrating landfill gas. In addition to the monitoring probes and punchbar locations, the GBT, located east of LF10, is monitored at the locations shown on Figure 2-9.

#### **4.2 Landfill Gas Monitoring Procedures**

Procedures and locations for landfill gas monitoring at LFs 8 and 10 are presented in the SPMP of the OU1 O&M Plan (Kelchner, 1997) and in the Methane Gas Migration Study (ES, 1991). The SPMP landfill gas monitoring procedures were written for individual, hand-held combustible gas indicators (CGIs), O<sub>2</sub> meters, and PIDs and call for removing the probe cap and measuring the initial gases at the top of the probe. The procedure also specified that if the initial CGI readings obtained were equal to or greater than 25 percent of the LEL, the probe was to be recapped and the Site Coordinator informed.

OU1 landfill gas readings from the permanent probe locations are now measured with a Landtec GA-90 Infrared Gas Analyzer that is connected to a pressure valve on the unvented probe cap, allowing for a more accurate reading. Soil vapor is then purged from the probe with the sampling pump in the meter. Levels of methane, LEL, carbon dioxide, oxygen, and pressure are displayed on a digital readout. After stabilization, the readings are recorded. A sustained methane reading is taken only if there is an initial detection of methane in the monitoring probe. If methane is detected, the cap-valve assembly of the probe is removed to open the top and allow the methane to dissipate for 30 minutes. The probe is then reassembled and the sustained reading is taken. The procedure for collecting the sustained reading is consistent with the method used by the previous OU1 monitoring subcontractor, but is not specified in the O&M Plan. However, some of the PVC probes were becoming loose in their settings when trying to remove the caps, and the integrity of the probes was becoming compromised. The valves in these probes have been replaced with ball valves that open to the outside atmosphere to vent the probe.

Punchbar locations are used to monitor for potential landfill gas migration along utility lines into the neighborhoods adjacent to the landfills. At these locations, a monitoring hole is created in the soil by driving a ½-inch diameter steel rod with a weighted slide-hammer to a maximum depth of 2.5 feet below ground surface. Note: personnel shall verify that no underground utilities are present prior to using the punchbar. A gas sample is then collected by inserting the

polypropylene tubing into the borehole, pinching the surface soil around the tube, and starting the vacuum pump.

### **5.0 OU1 Water Level Monitoring and Evaluation**

Groundwater levels are measured to evaluate the effectiveness of the extraction system in lowering water levels in the vicinity of the landfills. The *Design Package Number 1, Final (100%) Design* (IT, 1994) states that "the leachate collection system shall establish a capture zone that extends outside the landfill boundaries as determined by groundwater level measurements." To accomplish this objective, the soil barrier layer of the landfill cap has an approximate maximum permeability of  $1 \times 10^{-6}$  cm/s coupled with a synthetic geomembrane, as the primary components to minimize infiltration (Kelchner, 1997). This design is consistent with the alternative cap design recommended in the "*Guidance on Alternative Designs for Liners and Cap System Barrier Layers*" (OEPA, 1993). In addition, the extraction well networks for each landfill were uniquely configured to establish the required capture zones. Measurements were recorded to the nearest 0.01-foot in accordance with FP 7-2, using electric tape water level indicators. During June 2001, WPAFB cleaned the silt from around the extraction well screened intervals and pump inlets to improve efficiency.

To interpret the groundwater elevations at LF8 and LF10, groundwater contours were generated using SURFER™, a computer contouring package (Golden Software, Inc.). The contours were generated by first overlying a grid on the landfill. Hydraulic head values at the grid nodes were then computed from the measured values using linear kriging, an interpolation option in SURFER™. Due to the varying depths of the screened intervals, not all of the measured groundwater elevations were used to develop the groundwater elevation contours. Only monitoring wells with screened intervals at the approximate elevation of the bottom of the extraction wells were contoured.

The velocity vectors shown on the figures are oriented perpendicular to the groundwater elevation isopleth contours and illustrate the groundwater flow movement through the landfill. The length of an arrow represents the relative magnitude of groundwater velocity.

### **5.1 LF8 Objective and Evaluation Method**

The objective of the extraction system at LF8 is to provide a capture area on the downgradient portion of the landfill (east and northeast sides) that prevents migration of the dilute leachate from LF8. To demonstrate the effectiveness of the LF8 extraction wells in creating a continuous



capture zone, particle tracks were plotted to show the streamlines for groundwater flow through the landfill and typically into the extraction wells.

Groundwater particle tracks are created with Environmental Visualization Software (C Tech Development Corp.) using the kriging method. To create the particle tracks, a potentiometric surface of groundwater head is developed from the water level data, followed by a gradient calculation that plots streamlines. Particles are then released from the centerline (high point) of LF8 to illustrate the downgradient migration pathlines of potential contaminants released from the landfill. The pathlines will indicate if the groundwater extraction system is operating normally and capturing contaminant particles along the eastern edge of LF8 prior to migrating downgradient from the landfill. Particle capture is indicated by a pathline terminating at an extraction well. If a specific extraction well is not operating effectively or is out of service, particle capture will not occur at that well. However, the extraction wells are configured to provide overlapping capture zones for adjacent wells that are out of service.

## ***5.2 LF10 Objective and Evaluation Method***

Landfill 10 represents a local hydrologic high where groundwater from outside the landfill does not contribute substantially to leachate generation. The objective of the extraction system at LF10 is to maintain groundwater levels below the bottom of the landfill to prevent water from mixing with the in-situ waste at the landfill. By controlling the groundwater levels, the impact of the LF10 leachate on the environment is minimized.

The effectiveness of the LF10 extraction system is evaluated by comparing the elevation of the water table to the elevation of the landfill bottom. The system is achieving the stated goal as long as the water table is below the landfill bottom. If that occurs, any verification of the radius of influence for the extraction wells is not necessary. The extraction wells serve the purpose of lowering the water table rather than creating a capture zone under LF10. Water level elevation contours for the entire LF10 hydraulic containment monitoring well network are presented graphically to illustrate the variable groundwater flow patterns. The water level elevation contours were generated from the extraction wells and monitoring wells screened at the approximate same depth as the extraction wells.

## ***6.0 OU1 Effluent Collection System Monitoring***

To comply with the conditions specified in the City of Fairborn sewer discharge permit, one sample per quarter is collected from the discharge line of the effluent collection system. These

samples were collected by first purging an initial amount of water from the valve-operated tap in the discharge line to clear any stagnant water within the tap. A minimum purge volume for stabilization was not required, as the treatment system is in continuous operation. Purged water was containerized and disposed of in the LTM collection tank. After clearing the stagnant water, samples were collected directly from the discharge line tap. Analytical parameters and handling criteria for the sample collected from the leachate collection system discharge line are presented in Table A2-2.

In addition to reporting the effluent analytical data semiannually in the April and October LTM reports, quarterly reports are submitted to the WPAFB project manager and to the City of Fairborn Water Projects Coordinator.

**Table A2-1**

**OU1 Remedial Action Groundwater Quality Monitoring  
Sample Handling Criteria  
Wright-Patterson AFB, Ohio**

Parameter	Analytical Method <sup>1</sup>	Sampling Frequency	Container	Sample Preservative	Holding Time
Volatiles	EPA 8260B	Semiannual	Three x 40-ml glass vials, no headspace, teflon-lined septum cap	HCl to pH $\leq$ 2; Store @ 4°C	Analyze within 14 days
Metals - Mercury	EPA 200 - E245.1	Semiannual	One 1 liter polyethylene bottle	HNO <sub>3</sub> to pH $\leq$ 2 Store @ 4°C Field-filter (FP 6-8)	28 days
Semi-Volatiles	EPA 8270	Annually	Two x 1 liter amber glass bottle, Teflon-lined cap	Store @ 4°C	Extract within 7 days; analyze within 40 days after extraction
Dioxin/Furans	EPA 8290	Annually	Two x 1 liter amber glass bottle, Teflon-lined cap	Store @ 4°C	Extract within 1 year; analyze within 90 days after extraction
Pest/PCBs	EPA 8081A/8082	Annually	One x 1 liter amber glass bottle each	Store @ 4°C	Extract within 14 days; 40 days to analyze
Ammonia	EPA 350.3	Annually	One x 250 ml poly	H <sub>2</sub> SO <sub>4</sub> to pH $\leq$ 12 Store @ 4°C	Analyze within 28 days
Cyanide	EPA E335.2	Annually	One x 250 ml poly	NaOH to pH $>$ 12 Store @ 4°C	Analyze within 14 days
Extra Extractable		Annually	One x 1 liter amber glass bottle	Store @ 4°C	

<sup>1</sup> Analytical methods per OU1 Final O&M Plan, or similar – Part 4 (Kelchner, 1997).

**Table A2-2**

**OU1 Quarterly Effluent Discharge  
Line Sampling Program  
Wright-Patterson AFB, Ohio**

<b>Parameter</b>	<b>Analytical Method</b>	<b>Container</b>	<b>Preservative</b>	<b>Holding Time</b>
Volatile Organics 1,2-Dichloroethene Benzene Methylene Chloride Toluene	EPA 8260B <sup>(a)</sup>	Three 40-ml glass vials; Teflon-lined septum cap	HCl to pH $\leq$ 2; store @ 4°C.	Within 14 days
Metals (total) Arsenic Cadmium Chromium Copper Lead Mercury Molybdenum Nickel Selenium Zinc	EPA 200.7 <sup>(b)</sup> and EPA 245.1 <sup>(b)</sup>	One 1-liter polyethylene bottle	HNO <sub>3</sub> to pH $\leq$ 2; store @ 4°C.	28 days
Oil and Grease	EPA 1664A <sup>(b)</sup>	One 1-liter amber glass	H <sub>2</sub> SO <sub>4</sub> to pH $\leq$ 2; store @ 4°C.	28 days
Total Suspended Solids	EPA 160.2 <sup>(b)</sup>	One 250-ml polyethylene	Store @ 4°C.	7 days
Chemical oxygen Demand	EPA 410.1 <sup>(b)</sup>	One 250-ml glass or polyethylene	H <sub>2</sub> SO <sub>4</sub> to pH $\leq$ 2; store @ 4°C.	28 days
pH	EPA 150.1 <sup>(b)</sup>	One 250-ml glass or polyethylene	None Required	Analyze immediately
Total Flow and Daily Flow	N/A	Field reading from totalizing flow meter and strip chart recorded	N/A	N/A

(a) "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater," 40 CFR, 136, Appendix A, October 26, 1984, and subsequent revisions

(b) "Methods for Chemical Analysis of Water and Wastes," EPA-600/4-79-020, March 1983 and subsequent revisions.

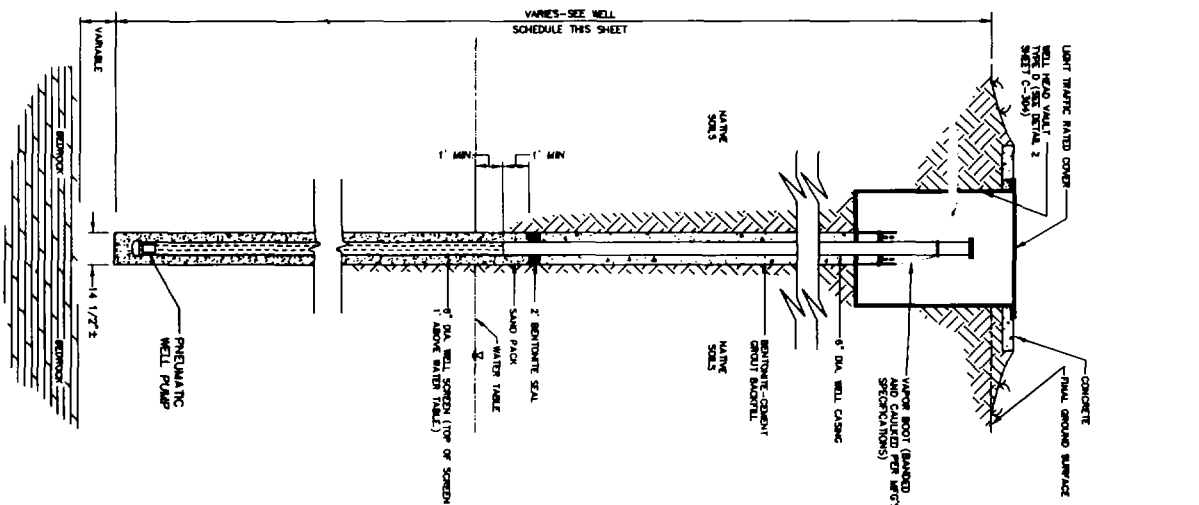
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4

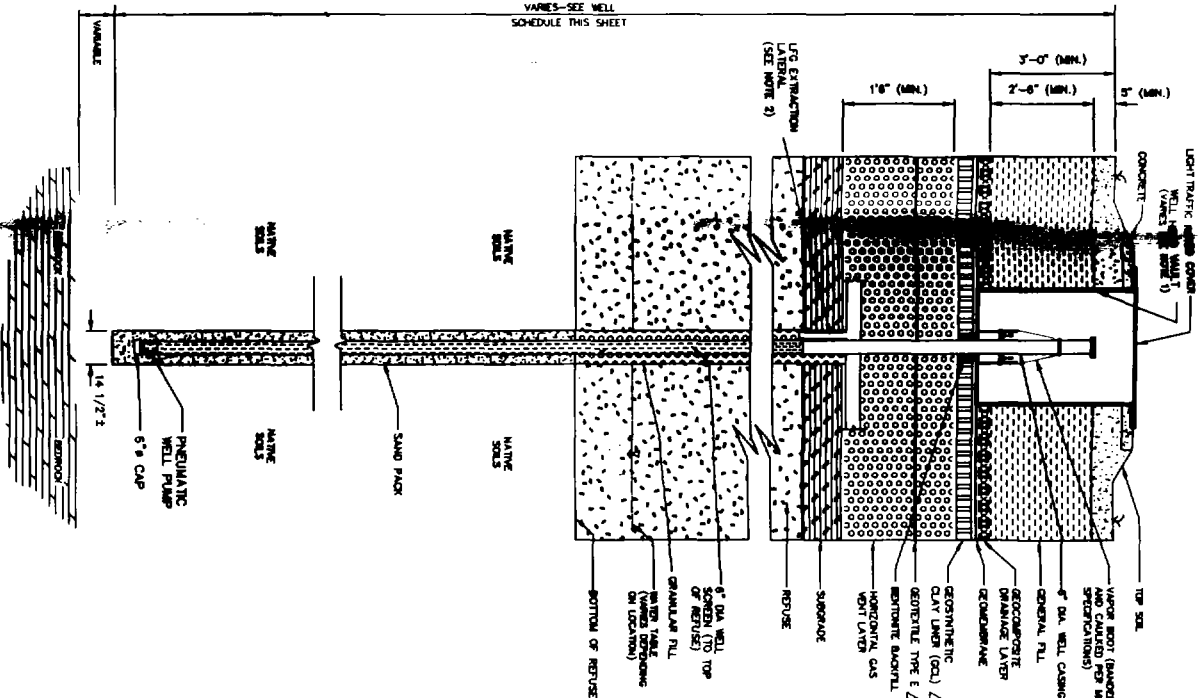
3

2

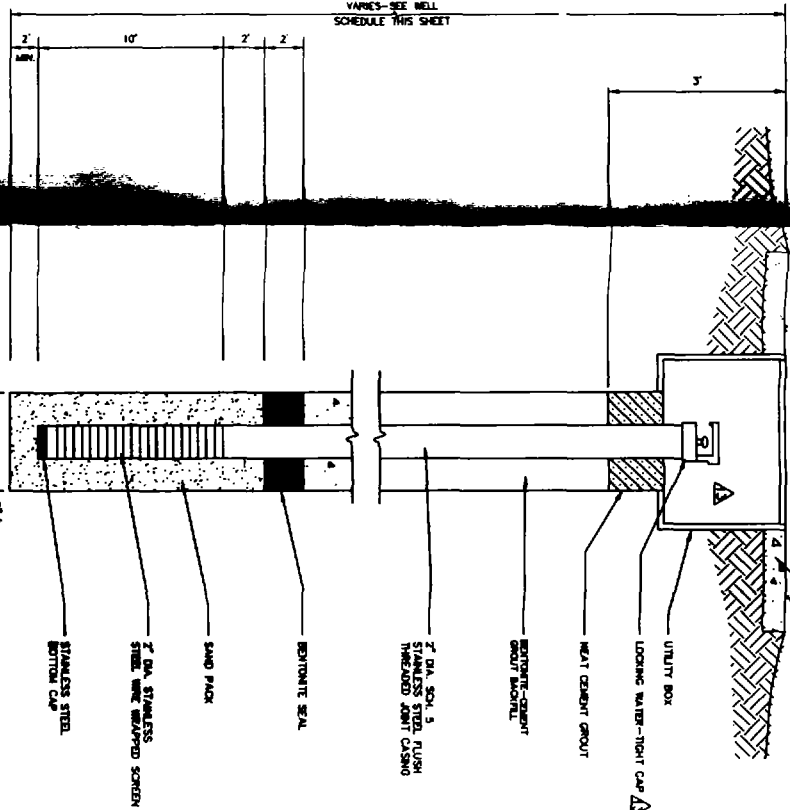
1



TYPICAL EXTERIOR LEACHATE  
COLLECTION WELL  
C-302 C-300, C-301  
NOT TO SCALE



TYPICAL INTERIOR LEACHATE  
AND C-302 COLLECTION WELL  
C-302 C-300, C-301, C-200, C-201, E-4  
NOT TO SCALE



TYPICAL BEDROCK  
MONITORING WELL  
C-302 C-300, C-301  
NOT TO SCALE

- NOTES:
1. SEE EXTRACTION WELL SCHEDULE (THIS SHEET) AND SHEETS C-302 AND C-303 FOR DETAILS OF WELL HEAD VALVE TYPES.
  2. SEE SHEET C-202 FOR DETAIL OF UFG EXTRACTION LATERAL.

Revisions		Date	Approved
SYNTH	Description		
1	RECORD DRAINING	3/2/96	W.H.S.
2	SOIL BARRIER LAYER CHANGED TO GEOSYNTHETIC CLAY LINER (GCL)	06/02/96	W.H.S.
3	ISSUED FOR CONSTRUCTION	10/20/96	W.H.S.
4	ISSUED FOR BID	7/7/94	W.H.S.

DESIGNED BY	WRIGHT-PATTERSON AFB, OHIO
DRAWN BY	WRIGHT-PATTERSON AFB, OHIO
CHECKED BY	WRIGHT-PATTERSON AFB, OHIO
APPROVED BY	WRIGHT-PATTERSON AFB, OHIO

Scale: M.I.S.	Sheet: 45 of 75
Date: 7-7-94	Reference number: C-302
Drawing Code	Sheet 45 of 75

LEACHATE COLLECTION SYSTEM DETAILS  
FIGURE A2-1



**A3    Operable Unit 2 ROD Long-Term Monitoring and  
Sampling Procedures Summary**

## **Appendix A3**

### **OU2 ROD Long-Term Monitoring and Sampling Procedures Summary**

## **1.0 Introduction**

This section presents a brief investigative history and a summary of field activities conducted at OU2.

In accordance with the September 30, 1997, ROD (WPAFB, 1997) and remedial alternative GW2a from the Final FS for Spill Sites 2, 3, and 10 within OU2 (ES, 1996), a long-term soil gas and groundwater monitoring program was initiated for this unit. The LTM Program includes the Baseline evaluation, conducted in May 1997, and semiannual rounds of groundwater and soil gas sampling and analysis. The objectives of this monitoring program are to evaluate the effectiveness of in situ biodegradation and natural attenuation processes on petroleum hydrocarbon contamination in soil and groundwater.

In December 2000, well cluster NEA-MW28 was converted to a flush-mounted well completion. During removal of the sampling pumps, it was discovered that the well pad monument of monitoring well NEA-MW28-5S was incorrectly labeled as being well NEA-MW28-4I, the intermediate depth well of the MW28 cluster. NEA-MW28-5S was conversely labeled as MW28-4I. Therefore, since the Baseline sampling event in April 1997, well MW28-4I has been sampled in place of well MW28-5S. Once the wells were correctly identified, well MW28-5S was sampled during Round 7 on December 8, 2000.

## **2.0 Groundwater Sampling Field Procedures**

Groundwater samples were analyzed in the field for natural attenuation parameters of DO and ferrous iron using a Horiba U-22 water quality meter and a HACH® Photometer Kit, respectively. In addition, during the purging of each monitoring well, temperature, pH, conductivity, turbidity, and ORP were measured in the field in accordance with FP 5-5 and FP 5-6. The water quality meters were equipped with a flow-through cell, and measurements were collected every five minutes during purging.

## **3.0 Soil Gas Sampling Field Procedures**

Soil vapor samples were collected in Tedlar™ bags using a hand-operated vacuum pump. Prior to sampling, the pump was purged with ambient air for 20 cycles to clear any residual vapors from the previous sample. The Tedlar™ bag samples were sent to the off-site laboratory for BTEX and TVH analysis by USEPA Method 19 TO-3. Soil gas samples were also analyzed for natural attenuation parameters, including methane, oxygen, and carbon dioxide by ASTM Method D1946.

#### 4.0 Free-Product Removal

Monitoring well WP-NEA-MW21-3S has historically had a layer of hydrocarbon product ranging from 0.01 foot to 1.0 foot on the water surface. Prior to the OU2 ROD sampling, a belt-skimmer removed the hydrocarbon layer from within the well. Beginning with Round 4 of the OU2 ROD sampling in April 1999, well MW21-3S was sampled by temporarily removing the belt-skimmer and placing a disposable, hydrophobic, hydrocarbon absorbent tube (i.e., SoakEase™) in the well to remove the residual hydrocarbon film. As the product layer in NEA-MW21-3S diminished, this passive method permanently replaced the existing belt-skimmer system in June 1999. To conduct groundwater sampling, the SoakEase™ was removed and a dedicated pneumatic submersible pump was installed for sampling. Due to an increase in the hydrocarbon layer, on June 9, 2000, the SoakEase™ was replaced with a Petro-trap™ hydrocarbon removal system. The Petro-trap™ is a passive hydrocarbon removal system that has a floating hydrophobic membrane that allows only hydrocarbon fluids to pass into a self-contained reservoir. On October 10, 2001, it was determined that the product layer had diminished to the extent that the Petro-trap™ was ineffective and the SoakEase™ was reinstalled for continued recovery of the thin product layer.

To ensure continued free-product recovery, the SoakEase™ was checked and replaced periodically. In addition, when the SoakEase™ was checked, the remaining free-product layer (if greater than 0.25 ft) was completely removed with a peristaltic pump and dedicated tubing.

Due to an increase in the product layer in July 2002, a large-scale recovery system was installed during the September-October 2002 sampling event and activated in November 2002. The remediation system, called a "Bioslurper," is a flexible vacuum tube that is installed inside a monitoring well and used to vacuum the light, non-aqueous phase liquid hydrocarbons (LNAPL) and shallow contaminated groundwater from the surface of the water table. Due to mineral fouling and intermittent free product recovery, the system had not operated continuously since installation and has been deactivated. When the Bioslurper was in operation contaminated groundwater, along with minor LNAPL, was processed through the Bioslurper system's phase separation tank, oil-water separator, and liquid and air carbon units. The finished water would then be discharged via the storm sewer under a National Pollutant Discharge Elimination System (NPDES) discharge permit. In addition to the Bioslurper, other modes available for advanced stages of remediation are bioventing and soil vapor recovery.

**A4    Basewide Long-Term Monitoring Site History and  
Monitoring Procedures**

Table A4-1    OU5 Historic Groundwater Sampling  
Results: VOCs

Figure A4-1    Building 59 Site Map

Figure A4-2    Building 79/95 Site Map

Figure A4-3    Spill Site 11 (FAA-B) Site Map



## **Appendix A4**

### **Basewide Long-Term Monitoring Site History and Monitoring Procedures**

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A4-1	OU5 Historic Groundwater Sampling Results: VOCs

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<b>Figure</b>	<b>Title</b>
A4-1	Building 59 Site Map
A4-2	Building 79/95 Complex Site Map
A4-3	Spill Site 11 (FAA-B) Site Map

## **1.0 Introduction and Site History**

Site history, hydraulic containment evaluation (OU5), groundwater sampling procedures, and data evaluation methods that have not changed from event to event are presented here. This format is used to streamline reading the report yet still retain background information.

## **2.0 OU5 Site Location and Hydraulic Containment Evaluation**

This section presents the hydraulic containment evaluation method used for OU5 and the groundwater treatment system.

### **2.1 OU5 Site Location**

OU5, located in the southwest corner of Area C, is a collection of discrete sites that have or may have been used for handling or disposal of hazardous materials in the past. It also includes other impacted areas located adjacent to these sites. The discrete sites include Landfill 5 (LF5), Fire Training Area 1 (FTA1), the Gravel Lake Tanks Site (GLTS), and Burial Site 4 (BS4). Site background information, including a summary of the types of wastes that were historically disposed of at LF5 and a synopsis of the land use in the surrounding area, is presented in the October 1998 LTM (1999b) report and the *OU5 Installation Restoration Program Final Remedial Investigation Report Operable Unit 5* (IT, 1995a).

### **2.2 Hydraulic Containment Evaluation**

To evaluate the effectiveness of extraction well EW-1 at OU5 in creating a continuous capture zone capable of preventing off site contaminant migration, water level elevations from a selected monitoring well network were used to create hydraulic head contour lines. Groundwater elevations were calculated from water level measurements taken from a surveyed reference point at each well. Water level elevations for each monitoring well were calculated by subtracting the measured depth to water from the reference elevation for the well. For those wells that are not in the OU5 water quality monitoring network and do not have dedicated sampling pumps, measurements were taken from the top of the inner well casing. For those wells with dedicated sampling pumps, measurements were taken from the top of the well cap at the monitoring port. Hydraulic head contour lines were generated using SURFER (Golden Software, Inc.), a grid-based contouring and three dimensional surface plotting graphics program. The modeling area of OU5 represented in the figures is 2,300 feet long and 2,200 feet wide and discretized into 231 columns and 220 rows, with a uniform spacing of 10 feet. The contours were generated by first overlaying the area with a 231 node by 221 node grid. The value of the hydraulic head at a grid node was computed from 22 measured values using the linear kriging interpolation option in SURFER.

1 These selected wells are a subset of the total hydraulic containment monitoring well network and  
2 were selected to be representative of the groundwater flow system that is influenced by EW-1  
3 based on the depths of the screened intervals (20 to 85 feet bgs).

4  
5 The accuracy of a potentiometric surface map depends not only on the number of measured  
6 values, but also on the distribution of the measuring points (monitoring wells). As seen in Figures  
7 3-3 through 3-8, the well network used for hydraulic containment monitoring is located  
8 throughout the OU5 area and includes monitoring well clusters (wells completed to different  
9 depths at the same location). At the well clusters, only wells completed to an intermediate depth  
10 (down to approximately 85 feet bgs) were used in contouring. In spite of the variability in aquifer  
11 recharge between portions of OU5 and lake impact, the water levels are reasonable considering the  
12 historic water levels from previous years and the regional groundwater flow direction. The  
13 groundwater elevation contours shown on the figures are representative of the general  
14 groundwater flow conditions at OU5 and indicate the extent of the cone of depression created by  
15 pumping extraction well EW-1. Additional testing and evaluation of the OU5 aquifer  
16 characteristics were conducted as a separate study and are presented in the *OU5 Groundwater*  
17 *Extraction System Evaluation* (IT, 2002a).

### 18 19 **3.0 LTM Site and Investigation History**

20 The following sections detail the previous investigations and monitoring activities for the former  
21 Building 59 and Building 79/95 complexes, OU5 (FAA-A), and SP11 (FAA-B).

#### 22 23 **3.1 Former Building 59 Complex**

24 The SI at Building 59 was initiated to identify the source areas and the nature and extent of VOC  
25 contamination in the water flooding the basement of Building 59A (IT, 2001d). The suspected  
26 sources of the contamination (sludge from the sumps and the oil/water separator) were removed  
27 between March 24 and April 7, 1999. In January 2001, a subsurface investigation of the area  
28 was conducted and is presented in the *Building 59 Subsurface Investigation Data Report*  
29 (IT, 2001e). Based upon the results of this subsurface investigation, the oil/water separator was  
30 decommissioned, Building 59 was demolished, and areas of contaminated soil were removed.  
31 The soil was excavated down to the top of encountered bedrock (approximately 8.5 feet bgs),  
32 which yielded the removal of 347.41 tons of TCE contaminated soils. The area was backfilled  
33 with appropriate fill material, re-graded, and paved. Remediation activities were completed in  
34 March 2001 [*Oversight and Sampling, Building 59 Demolition Report* (IT, 2002d)]. Figure A4-1

1 presents the location and proximity of the excavation to the Building 59 monitoring wells.  
2 Continued semi-annual monitoring will identify any trends in contaminant concentrations.  
3

### 4 **3.2 Former Building 79/95 Complex**

5 The SI at the former Building 79/95 Complex was initiated in April 2000 to identify the nature  
6 and extent of contamination associated with former rocket engine testing activities and  
7 subsequent building uses (IT, 2003c). Field activities were conducted as a phased investigation.  
8 The initial phase was conducted in March 2001 and consisted of 18 soil borings, with soil,  
9 groundwater, surface water, and sediment sampling. Results from this first phase indicated areas  
10 of concern where TCE contamination was detected. The suspected sources were the acid sumps,  
11 floor drains, and associated piping in the vicinity of Buildings 79C and 79D. These sources were  
12 removed, along with the rest of the building structures, in September 2001. The supplemental  
13 phase was a focused investigation conducted in November 2001. It consisted of 10 soil borings  
14 and groundwater sampling locations in the areas of concern. The supplemental investigation  
15 delineated the vertical and lateral extent of the TCE contamination and verified the potential  
16 source areas. In February 2002, four new monitoring wells were installed in and downgradient  
17 of the potential source areas. Figure A4-2 shows the sampling locations from the initial and  
18 supplemental investigations at the former Building 79/95 Complex and the four permanent  
19 monitoring wells. These four new monitoring wells were sampled for the first time under the  
20 LTM program during the October 2002 sampling event. Results from the monitoring well  
21 sampling indicate the boundary of the TCE contamination as seen in the figures presented in  
22 Chapter 7.0. Continued semi-annual sampling will monitor the degradation and reduction in  
23 VOC concentrations over time.  
24

### 25 **3.3 OU5 Water Quality Monitoring**

26 The original water quality monitoring program under the System Performance Monitoring Plan  
27 included quarterly sampling of 19 OU5 monitoring wells (IT, 1992). The Removal Action  
28 System Performance (RASP) monitoring program was conducted prior to the SPMP and  
29 consisted of 24 wells that were sampled quarterly. Of the 24 wells monitored, VOCs were  
30 regularly either not detected or were detected significantly below the MCL in 15 wells, as  
31 reported in the *Draft Final Removal Action System Performance Report No. 27, April-September*  
32 *1998, Landfill 5 Groundwater Treatment System, Volume 1* (Tetra Tech, 1998). A summary of  
33 the historic contaminant concentrations is presented in Table A4-1.  
34



Based on these historic analytical results and evidence that hydraulic containment of the groundwater plume is occurring, the 24 monitoring wells specified for continued sampling were reduced to nine wells. These nine wells were presented in the EE/CA for the Basewide Monitoring Program (IT, 1999a) and GWOU ROD (WPAFB, 1999). To provide a more comprehensive coverage downgradient of EW-1, monitoring wells Mad Mon 127 (HD-13D) (screened interval: 96 to 106 ft bgs), and CW04-060 (screened interval: 50 to 60 ft bgs) were added to the water quality monitoring well network during the April 2000 sampling event. These 11 wells are currently sampled semiannually and now comprise the LF5 groundwater quality monitoring network.

Water quality monitoring at OU5 is now conducted under the Basewide LTM Program. A presentation and discussion of the current analytical results from the current sampling event are presented in Chapters 6 and 7, respectively.

### **3.4 Further Action Area - A (OU5) - In-situ Remediation Pilot Study**

The groundwater VOC plume at OU5 extends from LF5 off-site onto the Huffman Preserve. This area of contamination was identified as FAA-A in the EE/CA (IT, 1999a). Under the EE/CA, an in-situ remediation consisting of injecting an oxidizing reagent into the subsurface was determined to be the most effective option. During June and July 2000, a permanganate injection pilot test was conducted in the vicinity of extraction well EW-1 to oxidize chlorinated ethenes (PCE, TCE, and DCE) and to observe the remedial effects. The pilot study consisted of injecting a permanganate solution into one existing monitoring well (CW05-085) and one new well (TTW-01) with EW-1 turned off. A total of 4,800 gallons of permanganate solution was injected into CW05-085 and 5,400 gallons of solution was injected into TTW-01. A residence time of approximately 6 weeks was allowed from the first injection before EW-1 was restarted. After the injections into each well were completed, surrounding monitoring wells were sampled for field parameters to observe the permanganate plume movement. The last sample of the test was collected on July 13, 2000. Immediately after the injections, VOC concentrations in wells CW05-085 and TTW-01 went to below detection limits. During subsequent OU5 LTM sampling events, the VOC levels in wells CW05-085 and HD-11 (located immediately downgradient of TTW-01) have fluctuated. However, as seen in Table 6-2, VOC concentrations in wells CW05-085 and HD-11 have recently begun to decrease. For a complete presentation of the test, please see the *Final Report, Further Action Area-A Treatability Tests, WPAFB, Groundwater Basewide Monitoring Program* (IT, 2001c).

### **3.5 Further Action Area - B (Spill Site 11) - In-situ Treatability Tests**

The in-situ treatability test at FAA-B was conducted from October 26 through October 29, 1999. The test consisted of injecting Fenton's Reagent, a combination of hydrogen peroxide and a catalyst (ferrous iron), into the VOC contaminated saturated zone of the water table aquifer. During the test, approximately 1,200 gallons of 25% hydrogen peroxide, 1,200 gallons of 50% hydrogen peroxide, and 4,600 gallons of ferrous sulfate catalyst (approximately 100 ppm  $\text{FeSO}_4$ ) were injected into eight injection wells, one vent well (VW4), and two monitoring wells (SP11-MW03 and SP11-MW07). Figure A4-3 shows the location of the injection points used during the test. Monitoring well SP11-MW03 was an existing monitoring well from the initial investigation in November 1995 and SP11-MW07 was a new well installed in October 1999 for the treatability test. Three rounds of baseline (pre-injection) groundwater sampling were conducted in wells SP11-MW03 and -MW07 to establish pretreatment VOC concentrations in the center of the VOC plume. After the application of the treatment, three subsequent (post-injection) samples were collected from wells SP11-MW03 and -MW07. Vinyl chloride in well SP11-MW03 decreased from 82  $\mu\text{g/L}$  in the pre-injection sample to 49  $\mu\text{g/L}$  in the post-injection sample. Total 1,2-DCE, however, increased from 5  $\mu\text{g/L}$  to 36  $\mu\text{g/L}$  during the injection period. At well SP11-MW07, the concentration of vinyl chloride decreased from 25  $\mu\text{g/L}$  to 5.4  $\mu\text{g/L}$ , while the concentrations of total 1,2-DCE increased from 170  $\mu\text{g/L}$  to 437  $\mu\text{g/L}$  and TCE increased from 7.9  $\mu\text{g/L}$  to 61.7  $\mu\text{g/L}$ .

Well SP11-MW07 is located adjacent to the cement pad within Facility 92, the drum storage area. Soil from around this well was removed in October 2000 and replaced with clean gravel. This location initially appeared to be the center of the VOC plume and the increase in some of the VOC concentrations after the treatment application may have been due to the release of residual contamination from the subsurface clays. As seen in the April 2003 analytical results, however, the TCE, vinyl chloride, and total 1,2-DCE concentrations have decreased, which may indicate that the plume has shifted slightly downgradient, with SP11-MW03 now in the center. Continued annual long-term monitoring will identify any trends in the contaminant concentrations at these locations.

### **4.0 LTM Groundwater Sampling Procedures**

Data collected under the LTM program will form a data set to be used to evaluate trends in the organic and inorganic COCs in groundwater and to evaluate the progress of ongoing remedial

actions throughout WPAFB. The following sections present the monitoring well networks for each investigation area and the groundwater sampling procedures used.

#### **4.1 Well Purging**

Procedures for well purging, sampling methods, sample management, handling, and containers and preservatives were all conducted in accordance with the procedures described in Appendix A2.

#### **4.2 LTM Monitoring Well Network**

The current monitoring well networks that comprise the LTM program for each area of concern are presented below.

##### **Semiannual VOC sampling (April and October):**

**Bldg. 59:** B59-MW01, B59-MW02, B59-MW03, and B59-MW04

**Bldg. 79:** B79C/D-MW01, B79C/D-MW02, B79C/D-MW03, and B79C/D-MW04

**BS5:** BS5 P-1, BS5 P-2, BS5 P-3, and BS5 P-4.

**OU2:** NEA-MW34-2S and NEA-MW27-3I (OU10).

**OU3:** FTA2:MW02C, LF12:MW15A (abandoned), 07-520-M, 05-DM-123S, 05-DM-1231, 05-DM-123D.

**OU4:** OU4-MW-02A, OU4-MW-02B, OU4-MW-03B, OU4-MW-03C, OU4-MW-04A (deleted), OU4-MW-04B (substitution for MW-04A in April 2002), OU4-MW-12B, BMP-OU4-1B-60, and BMP-OU4-1C-84.

**OU5:** CW04-060, CW05-055, CW05-85, CW07-055, CW10-055, HD-11, HD-12M, HD-12S, HD-13S, MAD-MON127 (HD-13D), MW131M (HSA-4A), MW131S (HSA-4B), and MW132S (HSA-5).

**OU8:** CW03-77.

**OU10:** OU10-MW-03S, OU10-MW-06S, OU10-MW-06D, OU10-MW-11S, OU10-MW-11D, OU10-MW-19D, OU10-MW-21S, OU10-MW-25S, GR-333, GR-334, NEA-MW37-1D, CHP4-MW01, GR-330, and 23-578-M

##### **Annual VOC sampling (April):**

**BS6:** BS6 P-1 and BS6 P-2.

**FAA-B:** SP11-MW01, SP11-MW02, SP11-MW03, SP11-MW07, SP11-MW08, SP11-MW09 and EFDZ2-MW03.

1       **OU8:**     OU8-MW-02S, P6-1, and P6-2.

2       **OU9:**     EFD04-MW06 and EFD09-M575.

3  
4       **Annual Metals sampling (April):**

5       **OU2:**     14-554-M, NEA-MW01-1S, NEA-MW02-2S, NEA-MW20-2S, NEA-MW23-2S,  
6                 NEA-MW24-2S, and NEA-MW31-3S.

7       **OU3:**     07-520-M.

8       **OU5:**     CW15-055.

9       **OU8:**     OU8-MW-02D and OU8-MW23D.

10       **OU9:**    P4-2, EFDZ3-MW02, EFDZ3-MW03, and EFDZ8-MW01.

11       **OU10:**   OU10-MW10I (Replacement for well 20-566-M), 25-582-M, 25-583-M,  
12                 25-584-M, OU10-MW03S, and OU10-MW-06S.

1

2

3



**Table A4-1**  
**OU5 Historic Groundwater**  
**Sampling Results: VOCs**  
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WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
08-020-M (MW20)	Sep-90	--	--	--	0.3	--	0.1
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	0.3
	Jun-92	--	--	--	1	--	0.4
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	0.3	0.2	--	0.4
	Jan-93	--	--	--	0.3	--	0.4
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	0.3	--	2
	Jul-93	--	--	--	--	--	0.2
	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
	Apr-94	--	--	--	--	--	--
	Aug-94	--	--	--	--	--	--
	Dec-94	2	--	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	0.3
	Apr-97	--	--	--	--	--	0.4
	Sep-97	--	--	--	--	--	--
	Jan-98	--	--	--	--	--	0.38
	Jul-98	--	--	--	--	--	0.36
08-021-M (MW21)	Sep-90	--	--	7	3.3	12	18
	Nov-91	--	--	15.5	--	--	80.3
	Mar-92	0.4	--	31	1	32	22
	Jun-92	0.7	--	65	2	33	24
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	2	--	60	2	48	7
	Jan-93	2	--	39	1	19	4
	Mar-93	--	--	12	2	--	6
	May-93	0.5	--	14	2	3	6
	Jul-93	0.3	--	25	1	11	6
	Oct-93	1.3	--	51	2.1	31	3.5
	Feb-94	--	0.7	33	1.1	10	2
	Apr-94	0.5	--	47	--	10	1
	Aug-94	--	--	94	--	--	2
	Dec-94	4	1	16	--	2	--

**Table A4-1**  
**OU5 Historic Groundwater**  
**Sampling Results: VOCs**  
**Wright-Patterson AFB, Ohio**  
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WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene	1,2-DCA	Total 1,2-DCE	PCE	Vinyl Chloride	TCE
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
08-021-M (cont.)	Mar-95	--	--	109	--	36	2
	Jun-95	--	--	28.2	--	6.43	1.8
	Sep-95	--	--	24.2	--	--	1.51
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	21.9	--	--	--
	Jun-96	--	--	4.01	--	--	12.1
	Aug-96	--	--	8.7	--	3.7	1.6
	Dec-96	--	--	7.1	0.6	--	0.9
	Feb-97	--	--	5.9	0.6	--	0.6
	Apr-97	0.3	--	15	0.6	8	0.8
	Sep-97	--	--	11.6	--	--	--
	Jan-98	--	--	10	--	2.6	0.56
	Jul-98	0.45	--	6.98	0.5	5.3	0.72
08-022-M	Sep-90	--	--	2.1	--	--	--
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	--	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Oct-93	--	--	1.9	--	--	--
	Feb-94	--	--	3.6	--	--	--
	Apr-94	--	--	--	--	--	--
	Aug-94	--	--	--	--	--	--
	Dec-94	--	--	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--
08-023-M	Sep-90	--	--	--	--	--	--
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	--	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--

**Table A4-1**  
**OU5 Historic Groundwater**  
**Sampling Results: VOCs**  
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WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
08-023-M (cont.)	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
08-522-M	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
08-523-M	Sep-90	--	--	--	--	--	--
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	--	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Oct-93	--	--	--	--	--	--
	Feb-94	0.7	--	--	--	--	--
08-524-M	Sep-90	--	--	--	--	--	--
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	--	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
08-525-M	Sep-90	--	--	--	--	--	--
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	--	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--
	Mar-93	11	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	NA	NA	NA	NA	NA	NA
	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--

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**OU5 Historic Groundwater**  
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WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
08-525-M (cont.)	Apr-94						
	Aug-94	--	--	--	--	--	--
	Dec-94	--	--	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--
08-526-M	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
08-527-M	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
08-528-M	Sep-90	--	--	--	3.3	--	0.3
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	--	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Oct-93	--	--	--	13	--	--
	Feb-94	--	--	--	7.6	--	--
CW04-018	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
CW04-060	Sep-90	--	--	0.3	--	--	--
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	1	--	--	--
	Jun-92	--	0.6	2	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	4	1	--	--	--
	Jan-93	--	0.5	0.9	--	--	0.3
	Mar-93	--	--	1	--	--	--
	May-93	--	--	2	--	--	--

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**OU5 Historic Groundwater**  
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WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
CW04-060 (cont.)	Jul-93	--	--	0.9	--	--	--
	Oct-93	--	--	1.5	--	--	--
	Feb-94	--	--	0.9	--	--	--
	Apr-94	--	--	0.8	--	--	0.3
	Aug-94	--	--	2	--	--	--
	Dec-94	--	2	2	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	1	--	--	--
	Dec-95	--	--	1.39	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	0.62	--	--	--
	Dec-96	--	--	1.6	--	--	--
	Feb-97	--	--	1.1	--	--	--
	Apr-97	--	--	0.9	--	--	--
	Sep-97	--	--	1.3	--	--	--
	Jan-98	--	--	0.82	--	--	--
	Jul-98	--	--	0.66	--	--	0.62
CW04-085	Sep-90	--	--	8.9	--	--	--
	Nov-91	--	--	5.66	--	--	--
	Mar-92	--	--	7	--	--	--
	Jun-92	--	0.4	5	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	2	--	--	--
	Jan-93	--	0.4	4	--	--	--
	Mar-93	--	--	5	--	--	--
	May-93	--	--	5	--	--	--
	Jul-93	--	0.3	5	--	--	--
	Oct-93	--	--	3.3	--	--	--
	Feb-94	--	--	2.9	--	--	--
	Apr-94	--	--	2	--	--	0.8
	Aug-94	--	--	2	--	--	--
	Dec-94	--	--	1	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	1	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	0.6	--	--	--
	Dec-96	--	--	1	--	--	--
	Feb-97	0.2	--	0.7	--	--	--



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WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene	1,2-DCA	1,2-DCE	PCE	Vinyl Chloride	TCE
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
CW04-085 (cont.)	Apr-97	--	--	--	--	--	--
	Sep-97	--	--	1	--	--	--
	Jan-98	--	--	0.99	--	--	--
	Jul-98	--	--	1.1	--	--	--
CW05-055	Sep-90	--	--	41	--	1	550
	Nov-91	--	--	60	--	--	529
	Mar-92	0.5	--	16	--	2	91
	Jun-92	--	--	15	--	6	43
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	0.7	--	15	--	3	19
	Jan-93	0.2	--	5	--	--	16
	Mar-93	--	--	4	--	--	26
	May-93	--	--	2	--	--	23
	Jul-93	--	--	5	--	0.6	11
	Oct-93	--	--	1.7	--	--	8.4
	Feb-94	--	--	29.7	--	2	6.8
	Apr-94	0.6	--	16	--	3	3
	Aug-94	--	--	33	--	14	2
	Dec-94	--	2	8	--	3	3
	Mar-95	--	--	17	--	1	3
	Jun-95	--	--	22.7	--	5.3	2.71
	Sep-95	--	--	19.4	--	10.6	1.81
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	2.49	--	--	1.19
	Jun-96	--	--	6.48	--	11.7	1.84
	Aug-96	--	--	8.6	--	3.9	1.8
	Dec-96	--	--	8.9	--	--	5
	Feb-97	--	--	14.3	--	--	8
	Apr-97	--	--	9	--	1.6	3.2
	Sep-97	--	--	7.4	--	--	2.1
	Jan-98	--	--	2.2	--	0.84	2.4
	Jul-98	--	--	12.24	--	3	1.4
CW05-085	Sep-90	--	--	40	--	0.5	770
	Nov-91	--	--	30.2	--	--	346
	Mar-92	--	--	23	--	--	470
	Jun-92	--	--	18	--	--	490
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	25	--	--	380
	Jan-93	--	--	27	--	--	360
	Mar-93	--	--	25	--	--	310
	May-93	--	--	18	--	--	400
	Jul-93	--	--	23	--	--	300
	Oct-93	--	--	25.6	--	--	316

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WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene	1,2-DCA	Total 1,2-DCE	PCE	Vinyl Chloride	TCE
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
CW05-085 (cont.)	Feb-94	--	--	12	--	--	360
	Apr-94	--	--	22	--	0.3	200
	Aug-94	--	--	30	--	--	140
	Dec-94	--	2	20	--	--	250
	Mar-95	--	--	9	--	--	161
	Jun-95	--	--	5.93	--	--	169
	Sep-95	--	--	--	--	--	132
	Dec-95	1.91	--	15.34	--	--	154
	Mar-96	--	--	23.8	--	--	130
	Jun-96	--	--	39.26	--	--	162
	Aug-96	--	--	13	--	--	160
	Dec-96	--	--	27	--	--	150
	Feb-97	--	--	42.4	--	--	170
	Apr-97	--	--	24	--	--	180
	Sep-97	--	--	20	--	--	130
	Jan-98	--	--	12.7	--	--	140
	Jul-98	--	--	28.2	--	--	130
CW06-077	Sep-90	--	--	1.3	--	--	6.2
	Nov-91	--	--	--	--	--	1.79
	Mar-92	--	--	--	--	--	0.6
	Jun-92	--	--	--	--	--	0.7
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	--	--	--	0.6
	Jan-93	--	--	--	--	--	0.5
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	0.2
	Jul-93	--	--	--	--	--	--
	Oct-93	--	--	--	--	--	--
	Mar-94	--	--	--	--	--	--
	Apr-94	--	--	--	--	--	--
	Aug-94	--	--	--	--	--	2
	Dec-94	--	1	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	0.3
	Apr-97	--	--	--	--	--	--
	Sep-97	--	--	--	--	--	--

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WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
CW06-077 (cont.)	Jan-98	--	--	--	--	--	--
	Jul-98	--	--	--	--	--	--
CW07-055	Sep-90	--	--	--	--	--	--
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	1
	Jun-92	--	--	--	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Oct-93	--	--	--	--	--	--
	Mar-94	--	--	--	--	--	--
	Apr-94	--	--	--	--	--	--
	Aug-94	--	--	--	--	--	--
	Dec-94	--	1	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--
	Apr-98	--	--	--	--	--	--
	Sep-98	--	--	--	--	--	--
	Jan-98	--	--	--	--	--	--
	Jul-98	--	--	--	--	--	--
CW07-100	Sep-90	--	--	--	--	--	--
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	--	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Oct-93	--	--	--	--	--	--
	Mar-94	--	--	--	--	--	--
	Apr-94	--	--	--	--	--	--
	Aug-94	--	--	--	--	--	--

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WELL ID	DATE	CHEMICAL COMPOUND*					
		Total				Vinyl	TCE
		Benzene (ug/L)	1,2-DCA (ug/L)	1,2-DCE (ug/L)	PCE (ug/L)	Chloride (ug/L)	(ug/L)
	MCL	5	5	70	5	2	5
CW07-100 (cont.)	Dec-94	--	1	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--
	Sep-97	--	--	--	--	--	--
	Jan-98	--	--	--	--	--	--
	Jul-98	--	--	--	--	--	--
CW07-148	Sep-90	--	--	--	--	--	--
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	--	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Oct-93	--	--	--	--	--	--
	Mar-94	--	--	--	--	--	--
CW07-183	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
CW08-017	Sep-90	--	--	--	--	--	--
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	--	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	0.4	--	--	--
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Oct-93	--	--	--	--	--	--
	Mar-94	--	--	--	--	--	--
	Apr-94	--	--	--	--	--	--
	Aug-94	--	--	--	--	--	--

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		Total			Vinyl		TCE
		Benzene (ug/L)	1,2-DCA (ug/L)	1,2-DCE (ug/L)	PCE (ug/L)	Chloride (ug/L)	
	MCL	5	5	70	5	2	5
CW08-017 (cont.)	Dec-94	--	--	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--
CW08-055	Sep-90	--	--	--	--	--	--
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	--	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	--	--	--	--
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
	Apr-94	--	--	--	--	--	--
	Aug-94	--	--	--	--	--	--
	Dec-94	--	2	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--
	Sep-97	--	--	--	--	--	--
	Jan-98	--	--	--	--	--	--
	Jul-98	--	--	--	--	--	--
CW08-110	Sep-90	--	--	--	--	--	--
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	--	--	--	--



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		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
CW08-110 (cont.)	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
	Apr-94	--	--	--	--	--	--
	Aug-94	--	--	--	--	--	--
	Dec-94	--	--	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--
CW08-150	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
CW09-073	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
CW09-100	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
CW10-055	Oct-93	--	--	--	--	--	4.7
	Feb-94	--	--	0.9	--	--	6.5
CW12-085	Nov-93	--	--	--	--	--	--
	Mar-94	--	--	--	--	--	--
CW13-085	Oct-93	--	--	--	--	--	--
	Mar-94	--	--	--	--	--	--
CW14-016	Oct-93	--	--	0.5	--	--	--
	Mar-94	--	--	--	--	--	--
CW15-055	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--

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WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	MCL	5	5	70	5	2	5
CW19-017	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
CW20-019	Oct-93	--	--	--	--	--	--
	Mar-94	1.8	--	--	--	--	--
CW21-018	Oct-93	3.8	--	--	--	--	--
	Feb-94	2	--	--	--	--	--
CW21-040	Oct-93	--	--	--	--	--	--
	Mar-94	--	--	--	--	--	--
CW22-018	Oct-93	--	--	--	--	--	--
	Mar-94	--	--	--	--	--	--
CW23-024	Oct-93	--	--	2.4	--	--	--
	Mar-94	--	--	2.1	--	--	--
CW24-009	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
GR-050	Sep-90	--	--	1.9	--	--	1.4
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	20	--	--	0.8
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	2.5	--	--	1
	Jan-93	--	--	2.5	--	--	8
	Mar-93	--	--	17	--	--	11
	May-93	--	--	12	--	--	8
	Jul-93	--	--	1.77	--	--	11
	Oct-93	--	--	1.4	--	--	0.97
	Feb-94	--	--	0.9	--	--	1
	Apr-94	--	--	1.1	0.4	0.6	1
	Aug-94	--	--	2	--	--	2
	Dec-94	--	--	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--

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WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
GR-050 (cont.)	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--
HD-09S	Sep-90	--	--	--	--	--	--
	Nov-91	--	0.9	--	0.9	--	4.2
	Mar-92	--	1	--	1	--	3.9
	Jun-92	--	0.9	--	0.9	--	3.7
	Sep-92	NA	NA	NA	0.8	NA	NA
	Nov-92	--	0.5	8	0.9	--	6
	Jan-93	--	--	13	1	--	7
	Mar-93	--	--	14	2	--	8
	May-93	--	--	11	2	--	8
	Jul-93	--	--	7	1	--	7
	Nov-93	--	--	6.2	1.6	--	6
	Feb-94	--	--	6.8	1.1	--	4.8
	Apr-94	--	--	2	0.6	--	2
	Aug-94	--	--	9	1	--	6
	Dec-94	--	2	6	--	--	5
	Mar-95	--	--	5	--	--	--
	Jun-95	--	--	3.56	--	--	3.39
	Sep-95	--	--	1.85	--	--	2.81
	Dec-95	--	--	2.38	--	--	3.36
	Mar-96	--	--	1.68	--	--	1.99
	Jun-96	--	--	--	--	--	1.35
	Aug-96	0.85	--	1.1	--	--	0.87
	Dec-96	--	--	1.3	--	--	0.9
	Feb-97	--	--	1	--	--	0.9
	Apr-97	--	--	1.2	0.4	--	1.1
	Sep-97	--	--	1	--	--	1.1
	Jan-98	--	--	0.76	0.41	--	1.2
	Jul-98	--	--	0.52	0.25	--	0.7
HD-10D	Sep-90	--	--	--	--	--	--
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	--	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	--	--	--	0.4
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	0.4	--	--	--
	Jul-93	--	--	--	--	--	--

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WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	MCL	5	5	70	5	2	5
HD-10D (cont.)	Oct-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
	Apr-94	--	--	0.4	--	--	--
	Aug-94	--	--	2	--	--	--
	Dec-94	--	--	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--
	Apr-97	--	--	0.6	--	--	--
	Sep-97	--	--	--	--	--	--
	Jan-98	--	--	--	--	--	--
	Jul-98	--	--	--	--	--	--
HD-11	Sep-90	--	21	21	--	--	600
	Nov-91	--	--	35.3	--	--	394
	Mar-92	--	--	33	--	15	410
	Jun-92	--	--	26	--	41	420
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	24	--	--	310
	Jan-93	0.3	--	21	--	--	460
	Mar-93	--	--	14	--	--	350
	May-93	--	--	11	--	--	420
	Jul-93	--	--	11	--	--	390
	Oct-93	--	--	7	--	--	370
	Feb-94	0.3	0.2	46	--	0.6	200
	Apr-94	0.3	0.2	44	--	0.5	160
	Aug-94	2	--	44	--	--	160
	Dec-94	--	--	35	--	--	280
	Mar-95	--	--	31	--	--	173
	Jun-95	--	--	28.4	--	--	106
	Sep-95	--	--	23	--	--	108
	Dec-95	--	--	25.9	--	--	183
	Mar-96	--	--	17.9	--	--	119
	Jun-96	--	--	15.1	--	--	66.5
	Aug-96	--	--	22	--	--	51
	Dec-96	--	--	26.3	--	--	39
	Feb-97	--	--	21.9	--	--	27
	Apr-97	--	--	29	--	--	35

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WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
HD-11 (cont.)	Sep-97	--	--	22.6	--	--	49
	Jan-98	--	--	15.9	--	--	37
	Jul-98	--	--	14.9	--	--	32
HD-12M	Sep-90	--	--	--	--	--	9.1
	Nov-91	--	--	--	--	--	4.82
	Mar-92	--	--	--	--	--	6
	Jun-92	--	--	--	--	--	7
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	--	--	--	7
	Jan-93	--	--	--	--	--	6
	Mar-93	--	--	--	--	--	4
	May-93	0.2	--	--	--	--	4
	Jul-93	--	--	--	--	--	4
	Oct-93	--	--	--	--	--	4
	Feb-94	--	--	--	--	--	4
	Apr-94	--	--	0.3	--	--	5
	Aug-94	--	--	--	--	--	3
	Dec-94	--	--	--	--	--	3
	Mar-95	--	--	--	--	--	2
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	2.07
	Dec-95	--	--	--	--	--	1.63
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	2.56
	Aug-96	--	--	--	--	--	2
	Dec-96	--	--	--	--	--	1.5
	Feb-97	--	--	--	--	--	1.8
	Apr-97	--	--	--	--	--	2.1
	Sep-97	--	--	--	--	--	1.5
	Jan-98	--	--	--	--	--	1.3
	Jul-98	--	--	--	--	--	1.5
HD-12S	Sep-90	--	--	--	62	--	1
	Nov-91	--	--	--	--	--	--
	Mar-92	--	--	--	--	--	--
	Jun-92	--	--	--	--	--	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	NA
	Mar-93	--	--	--	--	--	NA
	May-93	--	--	--	90	--	2
	Jul-93	--	--	--	79	--	0.8
	Oct-93	--	--	--	71	--	1
	Feb-94	--	--	--	140	--	1



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		Benzene	1,2-DCA	Total 1,2-DCE	PCE	Vinyl Chloride	TCE
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
HD-12S (cont.)	Apr-94	--	--	--	73	--	1
	Aug-94	--	--	--	55	--	3
	Dec-94	--	--	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	49	--	--
	Sep-95	--	--	--	69.5	--	1.16
	Dec-95	--	--	--	44	--	--
	Mar-96	--	--	--	60.4	--	--
	Jun-96	--	--	--	52	--	1.42
	Aug-96	--	--	--	48	--	0.9
	Dec-96	--	--	--	44	--	1.1
	Feb-97	--	--	--	58	--	1.5
	Apr-97	--	--	1.8	69	--	--
	Sep-97	--	--	--	34	--	1.1
	Jan-98	--	--	--	46	--	1
	Jul-98	--	--	--	--	--	--
HD-13S	Sep-90	0.3	--	63	--	--	35
	Nov-91	--	--	105	--	--	32.9
	Mar-92	--	--	20	--	0.5	24
	Jun-92	0.3	--	11	--	--	18
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	4	--	--	9
	Jan-93	--	--	9	--	1	8
	Mar-93	0.3	--	50	--	5	6
	May-93	0.4	--	61	--	12	9
	Jul-93	--	--	33	--	3	8
	Oct-93	--	--	12	--	2	6
	Feb-94	0.2	--	2	--	--	2
	Apr-94	--	--	1	--	--	2
	Aug-94	--	--	1	--	--	2
	Dec-94	--	--	1	--	--	2
	Mar-95	--	--	1	--	--	--
	Jun-95	--	--	3.55	--	--	--
	Sep-95	--	--	5.94	--	--	4.66
	Dec-95	--	--	1.12	--	--	9.46
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	1	--	--	1
	Dec-96	--	--	1	--	--	1.1
	Feb-97	--	--	1.1	--	--	0.9
	Apr-97	--	--	1	--	--	0.4

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		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
HD-13S (cont.)	Sep-97	--	--	1.1	--	--	--
	Jan-98	--	--	0.8	--	--	0.39
	Jul-98	0.27	--	0.53	--	--	--
HD-14S	Sep-90	--	--	73	--	13.8	--
	Nov-91	--	--	--	--	--	--
	Mar-92	0.3	2	61	--	3	--
	Jun-92	0.2	2	50	--	2	--
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	13	280	--	--	--
	Jan-93	0.2	3	64	--	0.6	--
	Mar-93	0.2	3	78	--	--	0.6
	May-93	--	4	59	--	1	0.2
	Jul-93	--	4	74	--	0.9	1
	Oct-93	--	4.1	69	--	--	--
	Feb-94	--	--	100	--	1.6	0.8
	Apr-94	--	2	100	--	2	0.5
	Aug-94	--	2	82	--	2	--
	Dec-94	--	6	68	--	--	--
	Mar-95	--	5	50	--	--	--
	Jun-95	--	3	39.9	--	--	--
	Sep-95	--	2.24	28.6	--	--	--
	Dec-95	--	--	22.9	--	--	--
	Mar-96	--	2.44	--	--	--	--
	Jun-96	--	--	16.5	--	--	--
	Aug-96	--	1.2	21	--	--	--
	Dec-96	--	1	15	--	--	--
	Feb-97	--	--	11.4	--	--	--
	Apr-97	--	--	12	--	--	--
	Sep-97	--	--	16	--	--	--
	Jan-98	--	1.7	11.46	--	--	--
	Jul-98	--	1	10.36	--	--	--
EW-1	Sep-90	NA	NA	NA	NA	NA	NA
	Nov-91	NA	NA	NA	NA	NA	NA
	Mar-92	NA	NA	NA	NA	NA	NA
	Jun-92	--	--	47	--	3	247
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	40	--	1	230
	Mar-93	--	--	28	--	--	130
	May-93	--	--	37	--	0.9	160
	Jul-93	--	--	26	--	0.5	110

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		Benzene	1,2-DCA	Total 1,2-DCE	PCE	Vinyl Chloride	TCE
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
	<b>MCL</b>	5	5	70	5	2	5
MW-131-D (CT-4)	Sep-90	NA	NA	NA	NA	NA	NA
	Nov-91	NA	NA	NA	NA	NA	NA
	Mar-92	NA	NA	NA	NA	NA	NA
	Jun-92	NA	NA	NA	NA	NA	NA
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	3	--	--	--
	Jan-93	--	0.4	3	--	--	--
	Mar-93	--	--	3	--	--	1
	May-93	--	--	3	--	0.6	--
	Jul-93	--	--	2	--	--	--
	Oct-93	--	--	2.3	--	--	--
	Feb-94	--	--	2.9	--	--	--
	Apr-94	--	--	2	--	0.3	--
	Aug-94	--	--	3	--	--	--
	Dec-94	--	2	3	--	--	--
	Mar-95	--	--	2	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	1.51	--	--	--
	Dec-95	--	--	1.83	--	--	--
	Mar-96	--	--	1.68	--	--	1.22
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	1.3	--	--	--
	Dec-96	--	--	1.3	--	--	--
	Feb-97	--	--	1.4	--	--	--
	Apr-97	--	--	2.2	--	--	--
	Sep-97	--	--	1.5	--	--	--
	Jan-98	--	--	0.97	--	--	--
	Jul-98	0.21	--	0.94	--	--	--
MW-131-M (HSA-4A)	Sep-90	NA	NA	NA	NA	NA	NA
	Nov-91	NA	NA	NA	NA	NA	NA
	Mar-92	NA	NA	NA	NA	NA	NA
	Jun-92	NA	NA	NA	NA	NA	NA
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	3	--	--	260
	Jan-93	--	--	3	--	--	300
	Mar-93	--	--	3	--	--	260
	May-93	0.3	--	5	--	--	260
	Jul-93	--	--	5	--	--	230
	Oct-93	--	--	23	--	--	190
	Feb-94	--	0.7	50	--	--	66
	Apr-94	--	--	97	--	1	58
	Aug-94	--	--	90	--	--	53
	Dec-94	--	2	74	--	1	35

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		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
MW-131-M (HSA-4A) (cont.)	Mar-95	--	--	64	--	--	40
	Jun-95	--	--	67.5	--	--	34.9
	Sep-95	--	--	49.2	--	--	39.1
	Dec-95	--	--	48.9	--	--	44.4
	Mar-96	--	--	24.8	--	--	43.8
	Jun-96	--	--	9.27	--	--	36.8
	Aug-96	--	--	25.9	--	--	33
	Dec-96	--	--	36	--	--	27
	Feb-97	--	--	33.6	--	4.3	25
	Apr-97	--	--	51	--	8.1	36
	Sep-97	--	--	19	--	3.7	41
	Jan-98	--	--	12.3	--	1.3	33
	Jul-98	--	--	8.09	--	--	30
MW-131-S (HSA-4B)	Sep-90	NA	NA	NA	NA	NA	NA
	Nov-91	NA	NA	NA	NA	NA	NA
	Mar-92	NA	NA	NA	NA	NA	NA
	Jun-92	NA	NA	NA	NA	NA	NA
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	--	10	--	26
	Jan-93	--	--	--	10	--	23
	Mar-93	--	--	--	9	--	19
	May-93	--	--	--	7	--	19
	Jul-93	--	--	--	9	--	14
	Nov-93	--	--	--	6.7	--	14.5
	Feb-94	--	--	--	6.3	--	9.8
	Apr-94	--	--	0.6	8	--	8
	Aug-94	--	--	1	5	--	7
	Dec-94	--	2	--	4	--	8
	Mar-95	--	--	--	4	--	10
	Jun-95	--	--	--	2.95	--	5.56
	Sep-95	--	--	--	4.71	--	4.16
	Dec-95	--	--	--	3.29	--	4.22
	Mar-96	--	--	--	3.52	--	2.88
	Jun-96	--	--	--	4.4	--	--
	Aug-96	--	--	--	2.8	--	2.5
	Dec-96	--	--	1.2	1.8	--	1.8
	Feb-97	0.2	--	0.9	2.3	--	1.7
	Apr-97	--	--	1.3	3.4	--	1.7
	Sep-97	--	--	0.8	1.5	--	31
	Jan-98	--	--	0.75	1.4	--	2.6
	Jul-98	--	--	0.43	3.5	--	1.4

**Table A4-1**  
**OU5 Historic Groundwater**  
**Sampling Results: VOCs**  
**Wright-Patterson AFB, Ohio**  
**Page 20 of 22**

WPAFB  
LTM Report: October 2004  
Appendix A

WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
MW-132-15	Sep-90	NA	NA	NA	NA	NA	NA
	Nov-91	NA	NA	NA	NA	NA	NA
	Mar-92	NA	NA	NA	NA	NA	NA
	Jun-92	NA	NA	NA	NA	NA	NA
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Oct-93	--	--	--	3	--	--
	Feb-94	--	--	--	3.2	--	--
MW-132-D (CT-5)	Sep-90	NA	NA	NA	NA	NA	NA
	Nov-91	NA	NA	NA	NA	NA	NA
	Mar-92	NA	NA	NA	NA	NA	NA
	Jun-92	NA	NA	NA	NA	NA	NA
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Nov-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jan-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--
	Sep-97	--	--	--	--	--	--
	Jan-98	--	--	--	--	--	--
	Jul-98	--	--	--	--	--	--
MW-132-S (HSA-5)	Sep-90	NA	NA	NA	NA	NA	NA
	Nov-91	NA	NA	NA	NA	NA	NA
	Mar-92	NA	NA	NA	NA	NA	NA
	Jun-92	NA	NA	NA	NA	NA	NA
	Sep-92	NA	NA	NA	NA	NA	NA
	Nov-92	--	--	0.7	14	--	31
	Jan-93	--	--	0.7	13	--	29



**Table A4-1**  
**OU5 Historic Groundwater**  
**Sampling Results: VOCs**  
**Wright-Patterson AFB, Ohio**  
**Page 21 of 22**

WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	MCL	5	5	70	5	2	5
MW-132-S (HSA-5) (cont.)	Mar-93	--	--	0.6	15	--	32
	May-93	--	--	0.4	16	--	33
	Jul-93	--	--	--	13	--	28
	Nov-93	--	--	--	12.1	--	20.6
	Feb-94	--	--	1.2	10.5	--	25
	Apr-94	--	--	4	11	--	25
	Aug-94	--	--	3	9	--	27
	Dec-94	--	--	2	9	--	35
	Mar-95	--	--	2	9	--	--
	Jun-95	--	--	--	5.08	--	28.4
	Sep-95	--	--	1.06	8.68	--	34.5
	Dec-95	--	--	--	6.2	--	31.3
	Mar-96	--	--	2.55	--	--	30.6
	Jun-96	--	--	3.51	5.49	--	31.9
	Aug-96	--	--	1.9	6	--	30
	Dec-96	--	--	2.7	5.7	--	28
	Feb-97	0.2	--	2.1	6.8	--	31
	Apr-97	--	--	2.4	8	--	40
	Sep-97	--	--	1.5	6.5	--	33
	Jan-98	--	--	1.1	6.5	--	31
	Jul-98	--	--	0.64	6.3	--	32
MW-133-D (CT-6)	Sep-90	NA	NA	NA	NA	NA	NA
	Nov-91	NA	NA	NA	NA	NA	NA
	Mar-92	NA	NA	NA	NA	NA	NA
	Jun-92	NA	NA	NA	NA	NA	NA
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Nov-93	--	--	--	--	--	--
	Feb-94	0.7	--	--	--	--	--
	Apr-94	--	--	--	--	--	--
	Aug-94	--	--	--	--	--	--
	Dec-94	--	3	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	--	--	--	--
	Dec-95	--	--	--	--	--	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--

**Table A4-1**  
**OU5 Historic Groundwater**  
**Sampling Results: VOCs**  
**Wright-Patterson AFB, Ohio**  
**Page 22 of 22**

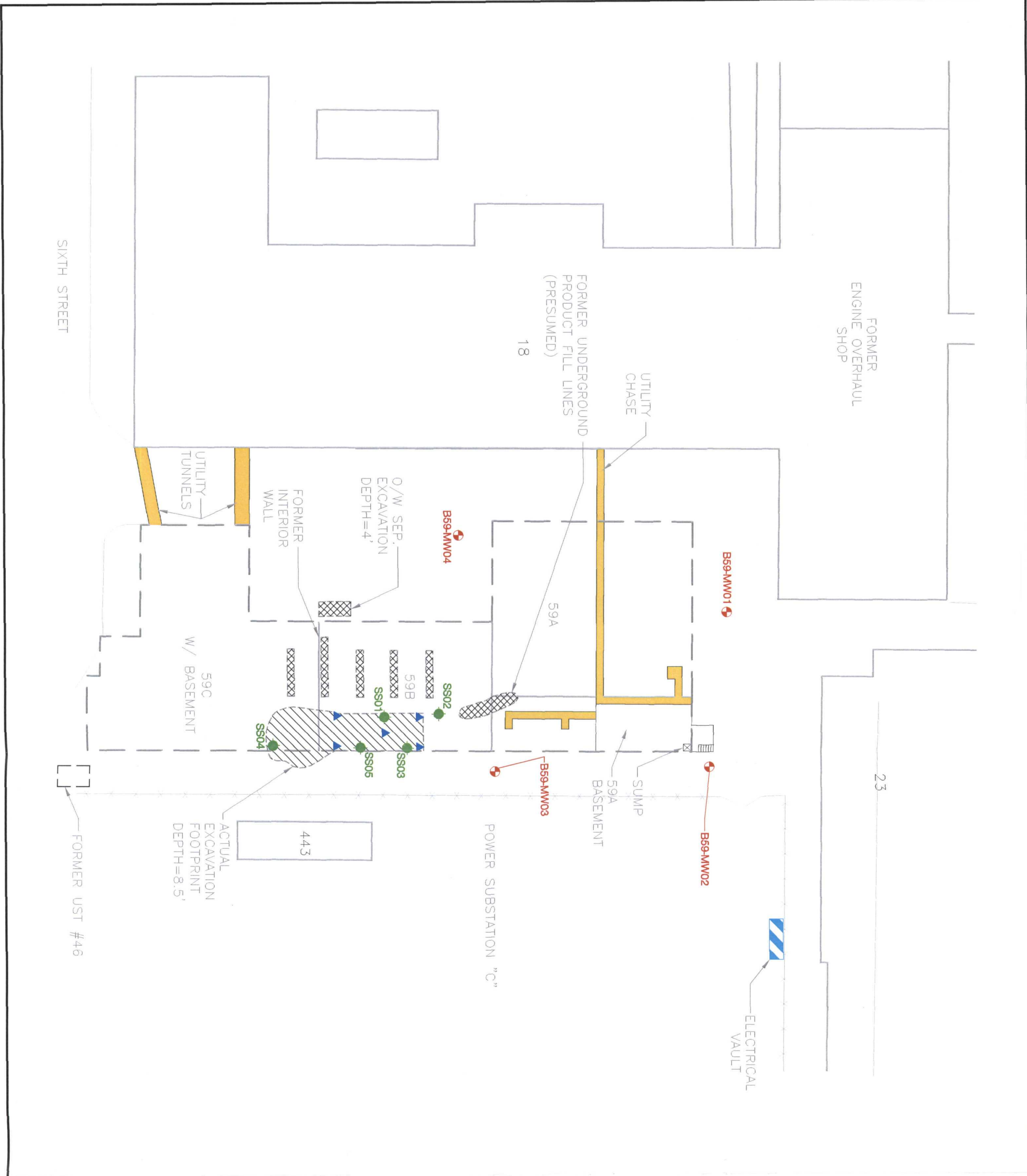
WELL ID	DATE	CHEMICAL COMPOUND*					
		Benzene (ug/L)	1,2-DCA (ug/L)	Total 1,2-DCE (ug/L)	PCE (ug/L)	Vinyl Chloride (ug/L)	TCE (ug/L)
	<b>MCL</b>	<b>5</b>	<b>5</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>
MW-133-D (CT-6) (cont.)	Feb-97	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--
	Sep-97	--	--	--	--	--	--
	Jan-98	--	--	--	--	--	--
	Jul-98	--	--	--	--	--	--
MW-133-S (HSA-6)	Sep-90	NA	NA	NA	NA	NA	NA
	Nov-91	NA	NA	NA	NA	NA	NA
	Mar-92	NA	NA	NA	NA	NA	NA
	Jun-92	NA	NA	NA	NA	NA	NA
	Sep-92	NA	NA	NA	NA	NA	NA
	Jan-93	--	--	--	--	--	--
	Mar-93	--	--	--	--	--	--
	May-93	--	--	--	--	--	--
	Jul-93	--	--	--	--	--	--
	Nov-93	--	--	--	--	--	--
	Feb-94	--	--	--	--	--	--
	Apr-94	--	--	--	0.6	--	1
	Aug-94	--	--	--	0.6	--	1
	Dec-94	--	--	--	--	--	--
	Mar-95	--	--	--	--	--	--
	Jun-95	--	--	--	--	--	--
	Sep-95	--	--	3	--	--	--
	Dec-95	1.02	--	--	--	<b>3.18</b>	--
	Mar-96	--	--	--	--	--	--
	Jun-96	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--
	Dec-96	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	0.3
	Sep-97	--	--	--	--	--	--
	Jan-98	--	--	--	--	--	--
	Jul-98	--	--	--	--	--	--

\* = Data Sources: 1995 Remedial Investigation (RI) Report  
1998 Removal Action System Performance Report (RASPR) #27  
-- = Non Detect  
NA = Not Available  
**Bold** = Concentration exceeds MCL.

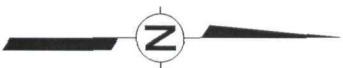
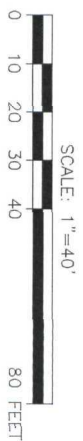
1

2

3

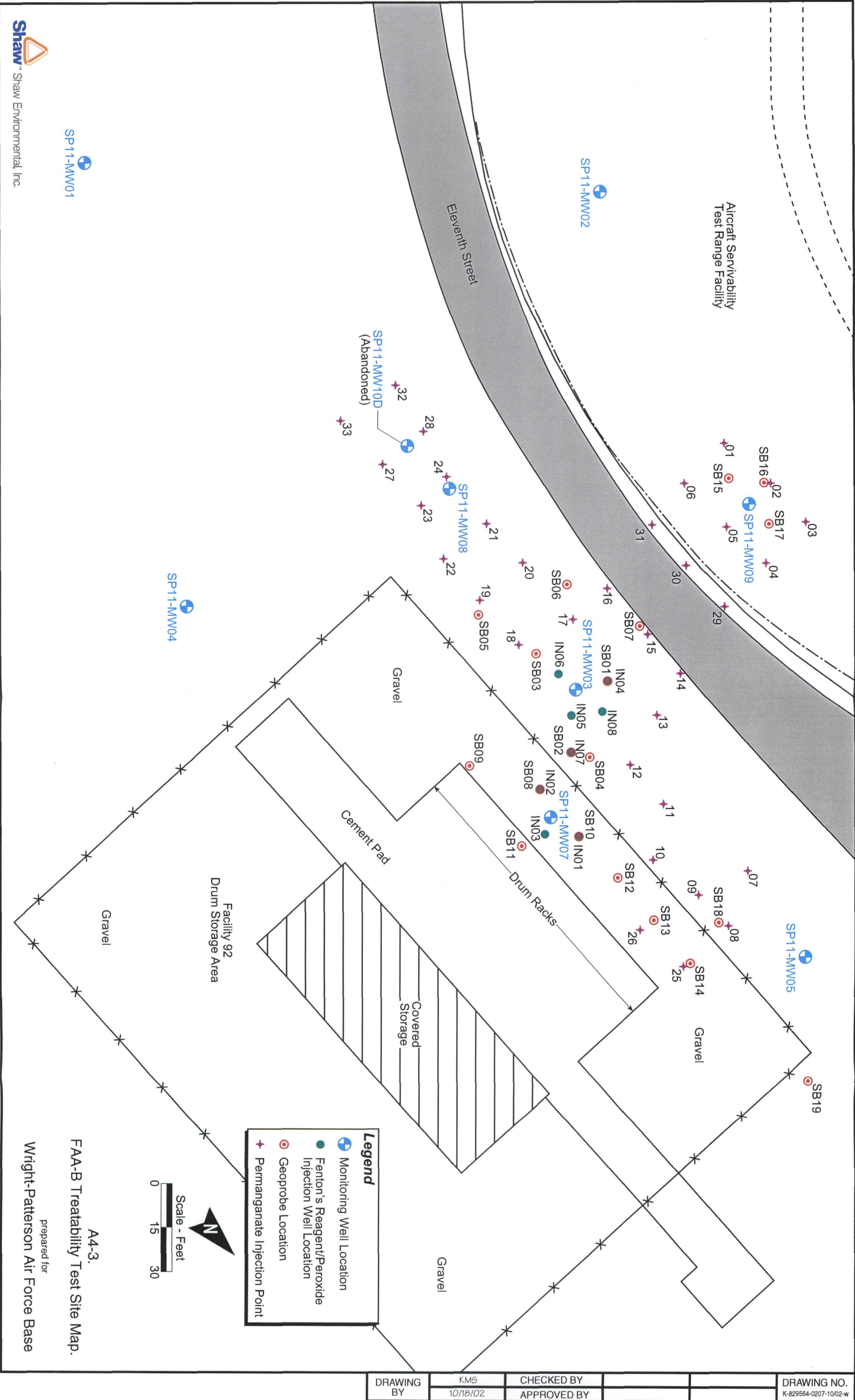


- LEGEND:**
- MONITORING WELL LOCATION
  - CONFIRMATION SOIL SAMPLE LOCATION
  - ▲ SOIL BORING LOCATION FOR WASTE CHARACTERIZATION
  - UTILITY CHASE
  - EXCAVATED AREA (SOIL REMOVED)
  - EXCAVATED AREA (SOIL RETURNED TO EXCAVATION)
  - FORMER BUILDING LOCATION









DRAWING NO.	K-829564-0207-10/02-w
CHECKED BY	KMS
APPROVED BY	10/18/02
DRAWING BY	

## **Appendix B**

### **OU1 Field Data Forms**

**B1 OU1 Groundwater Purge Logs – October  
and Sample Collection Forms – July and October**

**B2 OU1 Landfill Gas Monitoring Field Logs – July and  
September**

**B3 OU1 Water Level Field Forms – July and September**

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms***

## **Appendix B**

### **OU1 Field Data Forms**

**B1** OU1 Groundwater Purge Logs – October  
and Sample Collection Forms – July and October

**B2** OU1 Landfill Gas Monitoring Field Logs – July and  
September

**B3** OU1 Water Level Field Forms – July and September

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms***

**B1**

**OU1 Groundwater Purge Logs and Sample Collection Forms**



Shaw Environmental & Infrastructure, Inc.

# Groundwater Purge Log

WPAFB/ Fairborn, OH

PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF08 WELL ID: LF08-mw02A SAMPLE NUMBER: KH 30146

Samplers: KH, BF Well Secure (Y/N) Y Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 56.0 ft. Static Water Level (Depth to Water): 5.55 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/5/04	1308	1 NT	6.70	1 NT	13.53	7.42	1.73	0	-144	1.55	
	1312	0.04	7.52	0.2	13.73	7.13	3.46	22.5	-156	0.19	
	1318	0.03	8.62	0.35	13.63	7.08	4.12	51.6	-148	0.10	INCREASED PUMP RATE
	1323	0.10	11.41	0.85	12.67	7.31	2.11	7.0	-175	0	
	1328	0.10	15.19	1.35	13.00	7.34	1.84	22.7	-180	0	
	1333	0.08	15.27	1.75	13.14	7.37	1.60	47.9	-183	0	SLOWER PUMP RATE
	1338	0.02	15.31	1.85	13.54	7.37	1.54	63.5	-174	0	
	1343	CLEANED		FLW THRU		CH2					
	1348	FLW THRU		CELL NOT YET FULL							
	1350	0.01	15.60	1.90	14.22	7.36	1.35	1.6	-160	1.23	
	1355	0.02	15.70	2.00	14.28	7.37	1.42	0	-160	0.56	
	1400	0.01	15.82	2.05	14.35	7.38	1.42	0	-160	0.41	
	1405	0.01	15.98	2.10	14.40	7.39	1.42	0	-160	0.27	
	1410	SAMPLE		# KH30146							

Test Parameters (Circle Applicable): VOC (HCl) SVOC Total Metals (HNO<sub>3</sub>) 21.15 Filtered Metals (HNO<sub>3</sub>) 14.37 Methane/Ethane/Ethene (HCl) 1.1 Sulfate 0.76 Nitrate (H<sub>2</sub>SO<sub>4</sub>) 0.76

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra-Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD Split:

Sample Collection Date: 10/5/04 Sample Collection Time: 1410 Prepared by: KYLE HAVENS



# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF08 WELL ID: LF08-MW02C SAMPLE NUMBER: KH30147  
 Samplers: KH/BF Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ BLADDER PUMP Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 24.0 ft. Static Water Level (Depth to Water): 13.40 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/6/04	0833	1.17	13.70	1.51	11.19	6.45	0.897	20.5	-48	3.38	
	0838	0.02	13.92	0.10	12.03	6.95	0.799	29.5	-104	0.58	
	0843	0.02	14.12	0.20	12.39	7.21	0.764	6.7	-128	0	
	0848	0.03	14.20	0.35	12.52	7.26	0.750	0.1	-133	0	
	0853	0.03	14.20	0.50	12.86	7.28	0.739	0	-134	0	
	0858	0.04	14.20	0.70	12.61	7.29	0.736	0	-135	0	
	0903	0.04	14.20	0.90	12.58	7.30	0.735	0	-135	0	
	0908	0.04	14.20	1.10	12.62	7.31	0.739	0	-134	0	
	0913	0.04	14.20	1.30	12.91	7.31	0.760	1.2	-131	0.60	
	0918	0.04	14.20	1.50	12.89	7.30	0.767	0	-132	0.25	INCREASED PUMP RATE
	0923	0.10	14.20	2.00	12.93	7.29	0.788	0	-131	0.31	
	0928	0.05	14.20	2.25	12.96	7.26	0.786	0	-124	0.31	
	0933	0.05	14.20	2.50	13.02	7.25	0.793	0	-118	0	
	0938	SAMPLE			# KH 30147						

Test Parameters (Circle Applicable): 10.15 F.MAL 14.20 F.MAL 12.95 7.30 0.821 0 -110 0.57  
 (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD Split: Split

Sample Collection Date: 10/6/04 Sample Collection Time: 0938 Prepared by: KYUE MAWENS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU1 / LF08

WELL ID: LF08-MW05B

SAMPLE NUMBER: KH30149

Samplers: McMullen / Blum

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / Bladder Pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 53.8 ft.

Static Water Level (Depth to Water): 21.20 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/05/04	0855		22.58	Initial	12.63	6.35	0.98	37.1	79	4.76	
	0900		24.29	0.3	12.69	7.05	1.01	20.5	-148	0.60	
	0905		24.86	0.6	12.68	7.25	0.98	21.9	-166	0.61	
	0910		24.76	0.7	12.66	7.37	0.97	19.6	-171	0.63	
	0915		24.61	0.9	12.83	7.42	0.95	8.7	-174	0.60	
	0920		24.60	1.1	12.71	7.45	0.95	0.9	-176	0.58	
	0925		24.30	1.3	12.70	7.47	0.96	0.0	-176	0.58	
	0930		24.30	1.5	12.82	7.46	0.97	0.3	-177	0.60	
	0935		24.30	1.8	12.91	7.47	0.97	0.8	-177	0.59	
	0940		24.30	2.1	12.85	7.47	0.98	0.0	-176	0.58	
	0945		24.30	2.3	12.81	7.47	0.99	0.0	-175	0.58	
	0950		24.30	2.5	12.95	7.48	0.99	0.0	-174	0.56	
	0952	sample KH30149 and KH30148									
	1131		24.30	Final	13.06	7.52	1.09	13.4	-171	2.83	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: KH30148 MS/MSD:                      Split:                     

Sample Collection Date: McMullen 10/05/04 Sample Collection Time: 0952 Prepared by: McMullen

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF08

WELL ID: LF08-MW08A

SAMPLE NUMBER: KH30150

Samplers: JP/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 360 ft.

Static Water Level (Depth to Water): 5.42 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/5/04	1227		5.57	init	16.62	7.57	0.660	129.0	22	6.38	clear
	1232		5.64	0.4	15.37	7.41	0.692	207	-108	1.73	emptied cell, red tint
	1237		5.67	0.7	15.41	7.40	0.695	207	-120	1.14	
	1242		5.72	1.0	15.42	7.40	0.696	97.5	-130	0.47	
	1247		5.75	1.2	15.40	7.40	0.688	75.5	-133	0.41	clearing
	1252		5.79	1.3	15.06	7.40	0.687	65.1	-126	0.60	
	1257		5.90	1.5	15.27	7.39	0.686	59.1	-132	0.51	
	1302		5.93	1.7	15.35	7.40	0.686	44.5	-136	0.38	emptied cell
	1307		5.98	1.9	15.34	7.41	0.678	20.4	-126	9.95	
	1312		5.96	2.0	15.32	7.40	0.700	14.8	-134	0.47	
	1317		5.99	2.1	15.27	7.40	0.700	13.2	-136	0.37	
	1322		5.92	2.2	15.28	7.40	0.699	13.9	-139	0.34	
	1325	Collect sample									
	1455		6.10	final	14.60	7.40	0.676	14.5	-102	8.20	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/5/04 Sample Collection Time: 1325 Prepared by: SWH

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU1 / LFO8

WELL ID: LFO8 - MW08B

SAMPLE NUMBER: KH 30151

Samplers: JP / SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 24 ft.

Static Water Level (Depth to Water): 4.97 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) MS/CW	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/5/04	0915		5.63	Init.	13.03	6.88	0.665	869	-129	4.90	arts in well water
	0920		5.44	0.5	13.09	7.10	0.694	296	-122	2.50	brown
	0925		5.57	1.1	13.29	7.17	0.696	14.3	-111	2.20	clearing
	0930		5.58	1.3	13.27	7.18	0.697	11.7	-109	1.95	
	0935		5.65	1.6	13.26	7.21	0.697	0.7	-107	1.98	
	0940		5.70	2.0	13.33	7.25	0.698	1.7	-107	2.02	
	0945		5.75	2.2	13.36	7.28	0.663	3.3	-107	2.03	
	0950		5.78	2.5	13.62	7.32	0.670	4.8	-109	2.84	
	0952	Collect sample KH 30151									
	1050		6.03	final	15.03	7.52	0.702	0.0	-84	4.98	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD: Split:

Sample Collection Date: 10/5/04 Sample Collection Time: 0952 Prepared by: SWH

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF08

WELL ID: LF08 - MW08C

SAMPLE NUMBER: KH30152

Samplers: JP / SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / bailed

Target Purge Volume: 18.2 gal.

Sounding (Depth to Well Bottom): 15.40 ft.

Static Water Level (Depth to Water): 9.80 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) MS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/5/04	0845		9.80	init	14.20	5.91	0.94	2.9	306	7.19	
	0847			1.8	15.37	6.21	1.01	49.5	308	8.20	
	0850			4.0	15.41	6.51	1.14	148	299	5.55	
	0854			5.5	14.65	6.77	1.09	353	306	7.54	
	0857	dry at		6.2 gals							
	1515		11.75	—	15.52	7.30	1.03	38.7	140	5.81	
	1825	Collect sample									
	1550				15.39	7.51	1.16	165.0	184	6.29	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/5/04 Sample Collection Time: 1525 Prepared by: SW

Purge Volume Calculation:

~~LF10-MW05C~~  
LF000-MW08C

Well Depth 15.4 ft      Depth to Water (DTW) 9.8 ft

(1) Well Casing Water Volume

$$V_c = \pi (r_{\text{well}}^2) \times (\text{Well Depth} - \text{DTW}) \times (1 \text{ ft}^2 / 144 \text{ in.}^2) \times (7.48 \text{ gal/ft}^3)$$

For 2" Well

$$V_c = (0.163) \times (\text{Well Depth} - \text{DTW})$$

$$V_c = (0.163) \times (15.4 - 9.8)$$

$$V_c = 0.9129 \text{ gal}$$

For 4" Well

$$V_c = (0.653) \times (\text{Well Depth} - \text{DTW})$$

$$V_c = (0.653) \times (\text{ } - \text{ })$$

$$V_c = \text{ } \text{ gal}$$

(2) Filter Pack Water Volume

$$V_f = \pi (R_{\text{BORE}}^2 - r_{\text{WELL}}^2) \times (\text{Saturated Filter Pack Length}) \times (\text{Porosity}) \times (1 \text{ ft}^2 / 144 \text{ in.}^2) \times (7.48 \text{ gal/ft}^3)$$

\*\*Assume 0.30 porosity, 8" borehole diameter\*\*

$$V_f = (0.734) \times (\text{Filter Pack Length})$$

Filter Pack Length (from well construction summary sheet) 7'

$$V_f = 5.139 \text{ gal}$$

11.7 - 6.7 = 5'  
add 2' for sand permc  
7'

(3) Total Purge Volume

$$V_T = 3 \times (V_c + V_f)$$

$$V_T = 3 \times (0.9129 + 5.139)$$

$$V_T = 18.2 \text{ gal}$$



# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 2

SITE ID: 001 / LF08

WELL ID: LF08 - MW09A

SAMPLE NUMBER: 14H30153

Samplers: BF/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 32.5 ft.

Static Water Level (Depth to Water): 14.10 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) mscm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/18/04	1315		16.22	init	11.88	7.46	0.814	31.0	220	4.66	
	1320		16.96	0.3	11.73	7.26	0.774	26.4	206	1.20	
	1325		16.97	0.7	12.00	7.28	0.809	20.5	187	2.92	
	1330		19.04	0.9	11.43	7.30	0.814	22.1	178	3.16	
	1335		19.63	1.0	11.94	7.30	0.802	22.5	171	4.09	
	1340		20.04	1.05	11.94	7.32	0.806	26.3	165	4.50	
	1345		20.35	1.1	11.78	7.34	0.810	28.2	158	4.81	empty cell
	1350		20.56	1.15	11.42	7.35	0.755	27.3	158	10.65	
	1355		20.69	1.2	11.28	7.36	0.779	31.4	155	6.03	
	1400		20.71	1.25	11.4	7.37	0.784	25.4	154	5.99	
	1405		20.74	1.3	11.02	7.37	0.788	23.0	154	6.02	
	1410		21.10	1.4	11.72	7.37	0.790	22.7	152	6.28	
	1415		22.0	1.6	12.03	7.38	0.799	21.6	146	6.22	
	1420		22.59	1.9	11.70	7.37	0.799	24.4	122	5.91	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

~~SVOC~~

~~Pesticides / PCBs~~

~~Cyanide (NaOH)~~

~~Ammonia (H<sub>2</sub>SO<sub>4</sub>)~~

~~Dioxin / Furans~~

~~Extra Extractable~~

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/18/04 Sample Collection Time: 1437 Prepared by: SWJ





# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: 001 / LF08

WELL ID: LF08 - MW10A

SAMPLE NUMBER: KH 30158

Samplers: Britz/MChiller

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/Bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 66 ft.

Static Water Level (Depth to Water): 25.36 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/20/04	0846		25.55	Initial	14.73	6.39	0.576	9.4	195	8.13	clear
	0851		25.83	0.2	14.04	6.83	0.712	6.4	-109	1.67	
	0856		26.13	0.4	13.73	6.99	0.738	3.0	-158	0.19	
	0901		26.24	0.8	13.65	7.07	0.742	4.9	-167	0.00	
	0906		26.24	1.2	13.66	7.11	0.744	5.1	-171	0.00	
	0911		26.35	1.5	13.66	7.12	0.743	2.8	-173	0.00	
	0916		26.42	1.9	13.64	7.15	0.741	4.0	-175	0.00	
	0921		26.42	2.2	13.65	7.16	0.740	3.9	-176	0.00	
	0926		26.44	2.6	13.64	7.17	0.742	2.1	-177	0.00	
	0931		26.44	3.1	13.66	7.18	0.740	4.2	-177	0.00	
	0933	sample									
	1010		26.41	final	13.84	7.16	0.744	5.0	-153	3.09	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra-Extractable

QA/QC Samples Taken (Circle Applicable):

None

Duplicate: \_\_\_\_\_

MS/MSD: \_\_\_\_\_

Split: \_\_\_\_\_

Sample Collection Date: 10/20/04

Sample Collection Time: 0933

Prepared by: MChiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF08

WELL ID: LF08 - NW10B

SAMPLE NUMBER: KH 30159

Samplers: JP / SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 39 ft.

Static Water Level (Depth to Water): 23.81 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/12/04	0950		23.86	init	13.77	5.94	0.98	87.6	130	4.97	bio mass
	0955		24.32	0.3	13.88	6.33	1.32	263.0	-25	2.09	bio mass
	1000		24.99	1.0	13.81	6.49	1.30	33.6	-50	7.71	empty cell / clearing
	1005		24.31	1.05	13.46	6.55	1.30	29.7	-62	0.83	
	1010		24.42	1.3	13.80	6.58	1.30	23.9	-67	0.62	
	1015		24.47	1.8	13.74	6.59	1.33	22.3	-72	0.50	
	1020		24.49	2.0	13.78	6.59	1.35	17.3	-75	0.48	
	1025		24.48	2.2	13.81	6.60	1.36	16.6	-78	0.43	
	1030		24.40	2.5	13.81	6.61	1.37	20.1	-79	0.42	
	1032	Collect Sample									
	1135		24.97	final	14.28	6.69	1.37	10.0	-60	6.70	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: OEPA

Sample Collection Date: 10/12/04 Sample Collection Time: 1032 Prepared by: SWH

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: 001 / LF08

WELL ID: LF08 - MW10C

SAMPLE NUMBER: KH 30160

Samplers: Bentz / McMiller

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / Edder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 25 ft.

Static Water Level (Depth to Water): BTP @ 19.16 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) <i>ms/cm</i>	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/20/04	1631		BTP	Initial	15.32	7.71	0.979	24.7	85	8.50	
	1636		BTP	0.3	14.90	7.11	1.316	57.3	98	2.54	cloudy
	1641		BTP	0.7	14.84	7.06	1.40	31.6	97	1.55	
	1646		BTP	1.1	14.79	7.05	1.42	23.4	95	1.00	
	1651		BTP	1.5	14.78	7.04	1.42	18.2	93	0.86	
	1656		BTP	2.0	14.77	7.04	1.42	12.1	92	0.82	
	1701		BTP	2.3	14.79	7.04	1.42	9.8	92	0.73	
	1706		BTP	2.6	14.79	7.04	1.42	7.4	91	0.73	
	1707	sample									
	1803		BTP	final	14.84	7.06	1.39	4.4	112	4.55	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/20/04 Sample Collection Time: 1707 Prepared by: McMiller



# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: 001 / LF08

WELL ID: LF08 - MW11A

SAMPLE NUMBER: KH 30161

Samplers: JP/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 57 ft.

Static Water Level (Depth to Water): 12.71 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) MS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/13/04	1420		14.14	init	14.38	8.04	0.3166	1.9	-123	3.08	clear
	1425		14.33	0.4	14.26	7.01	0.554	3.0	-128	0.90	
	1430		14.31	0.6	14.62	6.92	0.624	2.6	-113	0.77	
	1435		14.48	0.9	14.73	6.96	0.600	3.1	-108	0.75	
	1440		14.33	1.0	14.65	7.04	0.542	3.8	-105	0.88	
	1445		14.36	1.2	14.87	7.11	0.506	6.4	-107	0.87	
	1450		14.64	1.4	14.63	7.12	0.511	11.7	-114	0.68	
	1455		14.70	1.6	14.58	7.11	0.510	14.2	-122	0.64	
	1500		14.75	1.9	14.60	7.11	0.526	17.8	-136	0.62	
	1505		14.51	2.0	14.60	7.12	0.526	21.6	-135	0.64	
	1510		14.35	2.1	14.80	7.13	0.519	24.3	-139	0.68	
	1515		14.41	2.2	14.86	7.14	0.515	24.8	-144	0.66	
	1517	Collect sample									
	1627		14.42	final	14.63	7.10	0.582	0.0	-129	1.76	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOO

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable):

None

Duplicate:

MS/MSD:

Split:

Sample Collection Date: 10/13/04

Sample Collection Time: 1515

8mW

Prepared by:

SWJ

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU1 / LF08 WELL ID: LF08 - MW118 SAMPLE NUMBER: KH30162  
 Samplers: JP/SW Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ bladder Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 44.3 ft. Static Water Level (Depth to Water): 12.05 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/13/04	0928		12.24	init	15.10	6.01	0.99	134	227	7.66	
	0933		12.17	0.2	14.15	6.38	0.98	7999	-78	0.58	biomass
	0938		12.18	0.7	14.45	6.49	0.98	540	-114	0.81	
	0943		12.17	1.0	14.52	6.56	0.98	297	-126	0.76	empty cell
	0948		12.17	1.1	14.47	6.61	0.98	192	-128	5.79	
	0953		12.19	1.6	14.38	6.64	0.98	145	-136	0.45	
	0958		12.18	1.9	14.42	6.66	0.98	96.4	-140	0.39	
	1003		12.19	2.1	14.36	6.68	0.97	78.6	-143	0.39	
	1008		12.18	2.3	14.43	6.68	0.97	51.8	-145	0.39	
	1013		12.18	2.4	14.43	6.69	0.97	37.3	-147	0.37	
	1018		12.19	2.6	14.33	6.70	0.97	24.7	-148	0.36	
	1023		12.17	2.8	14.34	6.71	0.97	23.9	-150	0.37	
	1028		12.19	3.0	14.48	6.71	0.97	24.1	-150	0.38	
	1203		12.30	final	13.82	6.86	0.96	1.5	-121	3.39	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD: KH30162 MS KH30162 MSD Split:

Sample Collection Date: 10/13/04 Sample Collection Time: 1030 Prepared by: SWH

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 2

SITE ID: 0V1 / LF08

WELL ID: LF08 - MW1 (C)

SAMPLE NUMBER: KH301603

Samplers: Bum / McMiller

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / Bladder Pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 23.9 ft.

Static Water Level (Depth to Water): 11.14 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) MS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/13/04	1429		11.66	Initial	15.50	6.29	1.29	0.0	165	6.91	
	1434		11.75	0.3	15.53	6.54	1.29	0.0	154	2.51	
	1439		11.93	0.7	15.61	6.61	1.29	0.0	148	0.96	
	1444		11.65	0.8	15.61	6.66	1.29	0.6	142	0.68	
	1449		11.30	0.9	15.48	6.69	1.30	3.0	139	0.51	
	1454		11.43	1.0	16.06	6.71	1.28	5.8	135	0.72	
	1459		11.49	1.1	16.05	6.73	1.29	3.7	132	0.73	
	1504		11.51	1.2	16.01	6.74	1.29	1.8	129	0.71	
	1509		11.53	1.3	15.93	6.75	1.29	1.9	125	0.62	
	1514		11.65	1.5	15.83	6.75	1.30	4.7	120	0.54	
	1519		11.65	1.6	15.80	6.76	1.29	5.6	120	0.54	
	1524		12.02	2.0	15.67	6.76	1.29	3.1	116	0.52	
	1529		12.01	2.2	15.73	6.76	1.29	2.3	114	0.43	
	1534		12.01	2.4	15.76	6.77	1.29	1.2	112	0.40	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD: Split:

Sample Collection Date: 10/13/04 Sample Collection Time: 1542 Prepared by: McMiller

WELL ID: Lf08-MW11C

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# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU1 / LF08

WELL ID: LF08-MW101

SAMPLE NUMBER: KH 30155

Samplers: McNitt / Blum

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / bladder pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 108 ft.

Static Water Level (Depth to Water): 32.00 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/04/04	1231		33.50	Initial	15.80	6.97	0.509	36.7	49	3.82	
	1236		34.15	0.1	15.34	7.18	0.614	21.3	-126	2.16	
	1241		35.45	0.3	14.86	7.33	0.805	13.0	-174	1.27	
	1246		36.70	0.5	14.48	7.45	0.929	6.9	-197	0.81	
	1251		37.60	0.8	14.52	7.50	0.964	5.9	-201	0.70	
	1256		38.38	1.0	14.59	7.54	0.978	10.2	-204	0.64	
	1301		39.00	1.2	14.96	7.56	0.977	12.4	-204	0.67	
	1306		39.51	1.4	15.24	7.58	0.977	9.9	-204	0.69	
	1311		39.87	1.6	15.44	7.60	0.967	9.4	-202	0.73	
	1316		40.05	1.8	15.69	7.62	0.938	10.8	-200	0.78	
	1321		40.24	2.0	15.99	7.64	0.896	13.4	-196	0.86	
	1326		40.50	2.1	16.11	7.65	0.865	13.6	-194	0.95	
	1331		40.91	2.2	15.96	7.71	0.847	10.9	-188	1.03	
	1507		47.38	Final	15.48	7.76	0.868	21.2	-66	2.27	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/04/04 Sample Collection Time: 1333 Prepared by: McNitt



Shaw Environmental & Infrastructure, Inc.

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF08

WELL ID: LF08-MW102

SAMPLE NUMBER: KH 30156

Samplers: KH, BE

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 73.0 ft.

Static Water Level (Depth to Water): 37.09 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/6/04	1045	1.07	38.79	1.07	14.05	7.50	0.357	121.0	-46	1.60	PUMPING AT SUMMIT RATE POSSIBLE AND STILL MAINTAIN FLOW
	1050	0.03	39.55	0.15	14.19	7.33	0.474	125.0	-97	0.61	
	1055	0.07	41.43	0.50	13.84	7.30	0.588	122.0	-117	0.10	INCREASED PUMP RATE
	1100	0.06	43.24	0.80	13.57	7.37	0.473	0	-127	0.73	CLEANED HORIZON CELL
	1105	0.06	43.76	1.10	13.82	7.42	0.461	0	-136	0	SLOWER PUMP RATE
	1110	0.03	43.87	1.25	14.38	7.41	0.460	0	-136	0.03	PUMPING AT SUMMIT RATE
	1115	0.03	44.03	1.40	14.76	7.41	0.458	0	-135	0.07	POSSIBLE AND STILL MAINTAIN FLOW
	1120	0.03	44.15	1.55	14.80	7.39	0.459	0	-132	0.05	
	1125	0.03	44.30	1.70	14.90	7.37	0.462	0	-130	0.05	
	1130	0.03	44.45	1.85	15.09	7.34	0.475	0	-126	0.17	
	1135	0.03	44.46	2.00	15.27	7.31	0.483	0	-123	0.20	
	1140	0.03	44.46	2.15	15.57	7.29	0.488	0	-120	0.22	
	1145	0.03	44.46	2.30	15.83	7.27	0.494	0	-119	0.22	
	1150		SAMPLE		# KH	30156					

Test Parameters (Circle Applicable): VOC (HCl) 40.96 FINAL 17.01 2.36 0.463 0 -135 0.37  
 SVOC None Pesticides / PCBs None Cyanide (NaOH) None Ammonia (H<sub>2</sub>SO<sub>4</sub>) None Dioxin / Furans None Extra Extractable None  
 Total Metals (HNO<sub>3</sub>) None Filtered Metals (HNO<sub>3</sub>) None Methane/Ethane/Ethene (HCl) None Sulfate None Nitrate (H<sub>2</sub>SO<sub>4</sub>) None

QA/QC Samples Taken (Circle Applicable): None Duplicate: None MS/MSD: None Split: None

Sample Collection Date: 10/6/04 Sample Collection Time: 1150 Prepared by: KYUE HAVENS



# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU1 / LF08

WELL ID: LF08 - MW 103

SAMPLE NUMBER: KH30157

Samplers: McNair/Bull

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ Bladder Pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 68 ft.

Static Water Level (Depth to Water): 36.05 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/06/04	0957		37.17	Initial	13.76	6.32	0.349	0.0	151	9.58	
	1002		39.00	0.3	13.34	6.84	0.1643	0.0	-151	0.92	
	1007		39.50	0.4	12.81	7.12	0.511	10.7	-152	3.95	
	1012		39.28	0.5	13.41	7.14	0.654	4.6	-161	2.58	
	1017		39.89	0.6	13.47	7.20	0.667	1.9	-173	1.50	
	1022		40.51	0.8	13.49	7.24	0.654	2.6	-181	0.57	
	1027		41.10	1.0	13.56	7.29	0.602	4.8	-184	0.44	
	1032		41.46	1.2	13.56	7.31	0.565	8.4	-181	0.41	
	1037		41.74	1.4	13.70	7.31	0.544	7.9	-176	0.37	
	1042		41.85	1.6	13.87	7.31	0.531	6.7	-174	0.44	
	1047		41.96	1.8	13.81	7.32	0.521	4.3	-171	0.45	
	1052		42.04	2.0	13.81	7.32	0.520	5.1	-166	0.99	
	1057		42.06	2.1	13.93	7.32	0.516	4.2	-163	0.76	
	1102		42.10	2.2	13.89	7.32	0.515	6.7	-162	0.160	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/06/04 Sample Collection Time: 1105 Prepared by: McNair

1259 43.70 6gal 13.94 7.40 0.547 13.1 -131 3.97



# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: 001 / LF08

WELL ID: 02-DM-815-M

SAMPLE NUMBER: KH 30139

Samplers: McHiller / Bunn

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / Bladder Pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 36.3 ft.

Static Water Level (Depth to Water): 27.34 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/05/04	1313		27.55	Initial	14.89	12.62	4.22	0.0	-98	10.16	
	1318		27.98	0.3	12.74	13.02	6.99	20.1	-141	7.03	
	1323		28.14	0.6	12.70	13.06	7.08	23.1	-133	7.02	
	1328		28.26	0.9	12.74	13.08	7.07	19.8	-126	8.07	
	1333		28.35	1.2	12.73	13.10	7.12	9.3	-124	7.22	
	1338		28.42	1.5	12.77	13.10	7.12	13.6	-122	7.61	
	1343		28.52	1.8	12.96	13.10	7.17	16.1	-121	6.69	
	1348		28.59	2.1	12.86	13.11	7.20	10.9	-120	6.69	
	1353		28.62	2.4	13.00	13.11	7.17	7.6	-119	6.64	
	1358		28.64	2.6	13.03	13.12	7.18	6.4	-118	6.61	
	1400	sample									
	1457		28.53	Final	13.03	13.02	6.54	9.5	-115	6.67	

Test Parameters (Circle Applicable): VOC (HCl) SVOC Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable X

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/05/04 Sample Collection Time: 1400 Prepared by: McHiller

Note: Extra acid added to VOC, metals, ~~SVOC~~ and Ammonia samples due to high pH of groundwater before sample collection.

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF08

WELL ID: 02-DM-81D-M

SAMPLE NUMBER: KH 30138

Samplers: mchiller/Bull

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ Bladder Pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 94.4 ft.

Static Water Level (Depth to Water): 29.78 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/05/04	1407		30.13	Initial	12.99	8.80	0.950	23.1	-178	8.97	
	1412		30.37	0.4	12.95	8.39	1.04	16.6	-160	9.55	
	1417		30.44	0.7	12.96	8.03	1.08	9.4	-150	9.40	
	1422		30.48	0.9	12.95	7.93	1.070	7.3	-148	7.71	
	1427		30.55	1.1	13.01	7.79	1.070	48.6	-146	9.56	
	1532		30.57	1.2	13.11	7.70	1.04	42.0	-143	5.34	
	1537		30.59	1.3	13.08	7.64	1.070	40.4	-144	8.11	
	1542		30.59	1.5	13.13	7.59	1.070	35.8	-142	5.99	
	1547		30.59	1.7	13.20	7.55	1.05	28.3	-140	3.74	
	1552		30.59	2.0	13.37	7.51	1.070	26.1	-138	8.39	
	1557		30.59	2.2	13.32	7.49	1.05	21.6	-137	8.39	
	1602		30.59	2.4	13.36	7.46	1.070	19.7	-136	7.71	
	1607		30.59	2.6	13.38	7.45	1.070	20.1	-136	8.69	
	1716		30.71	Final	13.24	7.45	1.070	12.4	-134	8.55	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

(SVOC)

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD: Split:

Sample Collection Date: 10/05/04 Sample Collection Time: 1609 Prepared by: mchiller



Shaw Environmental & Infrastructure, Inc.

# Groundwater Purge Log

WPAFB/ Fairborn, OH  
PROJECT 829564

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SITE ID: 001 / LF08

WELL ID: 02-DM-82-M

SAMPLE NUMBER: KH30140

Samplers: KH, BF

Well Secure (Y/N) Y

Well Casing Diameter: 4 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 64.5 ft.

Static Water Level (Depth to Water): 12.26 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) MS/CM	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/5/04	0829	1.01	12.38	1.01	11.66	6.83	0.602	0	17	7.18	CLEAR
	0834	0.03	12.41	.15	11.62	7.28	0.596	0	-83	3.94	"
	0839	0.02	12.44	.25	11.61	7.35	0.548	0	-89	2.63	"
	0844	0.02	12.45	.35	11.62	7.39	0.603	0	-83	1.74	"
	0849	0.03	12.46	.50	11.59	7.40	0.607	0	-75	1.29	"
	0854	0.02	12.47	.60	11.57	7.40	0.608	0	-68	1.03	"
	0859	0.03	12.47	.75	11.58	7.40	0.609	0	-63	0.82	"
	0904	0.02	12.47	.85	11.60	7.41	0.610	0	-62	0.64	"
	0909	0.02	12.47	.95	11.54	7.41	0.611	0	-62	0.58	"
	0914	0.02	12.47	1.05	11.57	7.42	0.610	0	-62	0.45	"
	0919	0.02	12.47	1.15	11.53	7.42	0.610	0	-63	0.42	"
	0924	0.02	12.47	1.25	11.58	7.41	0.608	0	-64	0.31	"
	0929	0.02	12.47	1.35	11.64	7.42	0.608	0	-65	0.26	"
	0934	0.02	12.47	1.45	11.71	7.42	0.608	0.3	-66	0.24	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra-Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/5/04 Sample Collection Time: 1017 Prepared by: KYLE HAVENS

[illegible]



# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: 0V1 / LF08 WELL ID: 02-DM-83S-M SAMPLE NUMBER: K17 30142  
 Samplers: B Fritz / mchiller Well Secure (Y/N) Y Well Casing Diameter: 4 in.  
 Purging Method / Equipment: Micropurge / Bladder Pump Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 17 ft. Static Water Level (Depth to Water): 18.58 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/20/04	1331		18.65	Initial	16.00	7.29	1.21	0.0	86	9.45	
	1336		18.69	0.1	15.84	7.01	1.30	0.0	97	6.39	
	1341		18.69	0.2	15.70	6.93	1.36	0.0	102	5.31	
	1346		18.69	0.3	15.64	6.92	1.38	0.0	104	5.20	
	1351		18.69	0.4	15.66	6.94	1.39	0.0	104	5.42	
	1356		18.74	0.9	15.61	6.98	1.41	0.0	103	6.18	
	1401		18.79	1.3	15.63	7.00	1.41	0.9	103	6.20	
	1406		18.80	1.7	15.62	7.01	1.41	1.0	102	6.28	
	1411		18.80	2.0	15.63	7.02	1.41	3.5	102	6.41	
	1416		18.80	2.2	15.59	7.01	1.41	1.6	101	6.05	
	1421		18.80	2.4	15.62	7.00	1.42	1.1	100	5.73	
	1423	sample									
	1612		18.83	Final	16.07	6.96	1.43	2.3	92	6.45	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra-Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD: Split:

Sample Collection Date: 10/20/04 Sample Collection Time: 1423 Prepared by: mchiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF08

WELL ID: 02-DM-830-M

SAMPLE NUMBER: KH 30141

Samplers: B Fritz / mchiller

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / Bladder Pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 72.7 ft.

Static Water Level (Depth to Water): 15.56 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/20/04	1029		15.92	Initial	14.21	7.20	0.674	0.0	-95	1.06	
	1034		16.35	0.4	13.95	7.13	0.681	0.2	-60	0.00	
	1039		16.87	1.0	13.89	7.11	0.680	1.3	-37	0.00	
	1044		17.22	1.4	13.93	7.11	0.681	2.2	-24	0.00	
	1049		17.58	1.8	13.97	7.11	0.680	3.4	-17	0.00	
	1054		17.96	2.1	14.09	7.11	0.679	5.3	-10	0.00	
	1059		17.93	2.3	14.13	7.11	0.680	5.5	-4	0.00	
	1104		18.04	2.6	14.12	7.11	0.679	6.3	-1	0.00	
	1109		18.20	3.0	14.20	7.12	0.679	5.1	2	0.00	
	1114		18.34	3.2	14.21	7.11	0.679	4.9	5	0.00	
	1119		18.41	3.3	14.25	7.11	0.678	4.3	7	0.00	
	1120	sample									
	1249		19.48	Final	13.99	7.10	0.680	2.1	5	4.20	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra-Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/20/04 Sample Collection Time: 1120 Prepared by: mchiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF08

WELL ID: 02-DM-84-M

SAMPLE NUMBER: KH30144

Samplers: KIT, BU

Well Secure (Y/N) Y

Well Casing Diameter: 4 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 57.8 ft.

Static Water Level (Depth to Water): 20.57 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond (mV) MS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/18/04	0836	1.1	20.77	1.1	12.65	6.41	0.745	41.2	25	9.02	CLEAR
	0841	0.10	20.99	0.50	12.24	6.36	1.31	12.1	-93	1.40	"
	0846	0.02	21.40	0.60	12.08	6.42	1.35	1.0	-114	0.63	"
	0851	0.04	21.48	0.80	12.11	6.45	1.35	0	-121	0.50	"
	0856	0.04	21.50	1.00	12.10	6.40	1.35	0	-124	0.31	"
	0901	0.04	21.50	1.20	12.09	6.47	1.35	0	-127	0.10	"
	0900	0.04	21.50	1.40	12.00	6.47	1.35	0	-127	0	"
	0911	0.06	21.70	1.70	11.97	6.48	1.35	0	-128	0	"
	0910	0.06	21.70	2.00	11.79	6.48	1.35	0	-128	0.05	"
	0921	0.04	21.70	2.20	11.83	6.49	1.35	0	-128	0	"
	0920	0.10	21.70	2.30	11.94	6.49	1.34	0	-127	0	"
	0928	SAMPLE		KH30144 / KH30143							
	1015	Final	21.93	Final	11.85	6.47	1.35	0	-125	2.30	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra-Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: KH30143 MS/MSD: — Split: —

Sample Collection Date: 10/18/04 Sample Collection Time: 0928 Prepared by: K. HAVENS

# Groundwater Purge Log

WPAFB/ Fairborn, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU1/LF10 WELL ID: LF10-MWD3A SAMPLE NUMBER: KH 30164  
 Samplers: JP/SW Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ bladder bailer Target Purge Volume: 17 gal.  
 Sounding (Depth to Well Bottom): 93.74 ft. Static Water Level (Depth to Water): 90.59 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/12/04	1545			init.	15.60	7.00	0.783	76.5	112	4.06	Misty / sandy
	1555			0.5	14.57	7.26	0.774	258	120	11.45	
	1600			1.0	14.79	7.24	0.776	7999	97	8.80	
	1621	well dry @		1.3 gallons							
10/13/04	1600		89.98								
	1610	Collect sample									
	1635	well dry									

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

~~SVOC~~ Pesticides / PCBs ~~Cyanide (NaOH)~~ ~~Ammonia (H<sub>2</sub>SO<sub>4</sub>)~~ ~~Dioxin/Furans~~ Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/13/04 Sample Collection Time: 1610 Prepared by: SWitt

**Purge Volume Calculation:**

Well Depth 93.74 ft      Depth to Water (DTW) 90.59 ft

- (1) Well Casing Water Volume

$$V_c = \pi (r_{\text{well}}^2) \times (\text{Well Depth} - \text{DTW}) \times (1 \text{ ft}^2 / 144 \text{ in.}^2) \times (7.48 \text{ gal/ft}^3)$$

**For 2" Well**

$$V_c = (0.163) \times (\text{Well Depth} - \text{DTW})$$

$$V_c = (0.163) \times (93.74 - 90.59)$$

$$V_c = 0.513 \text{ gal}$$

**For 4" Well**

$$V_c = (0.653) \times (\text{Well Depth} - \text{DTW})$$

$$V_c = (0.653) \times (\text{ } - \text{ })$$

$$V_c = \text{ } \text{ gal}$$

- (2) Filter Pack Water Volume

$$V_f = \pi (R_{\text{BORE}}^2 - r_{\text{WELL}}^2) \times (\text{Saturated Filter Pack Length}) \times (\text{Porosity}) \times (1 \text{ ft}^2 / 144 \text{ m}^2) \times (7.48 \text{ gal/ft}^3)$$

**\*\*Assume 0.30 porosity, 8" borehole diameter\*\***

$$V_f = (0.734) \times (\text{Filter Pack Length})$$

Filter Pack Length (from well construction summary sheet) 7'

$$V_f = 5.14 \text{ gal}$$

- (3) Total Purge Volume

$$V_T = 3 \times (V_c + V_f)$$

$$V_T = 3 \times (0.513 + 5.14)$$

$$V_T = 17.0 \text{ gal}$$

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU1 / LF10

WELL ID: LF10 - MW05B

SAMPLE NUMBER: KH30165

Samplers: SUN / JP

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 37 ft.

Static Water Level (Depth to Water): 19.47 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/4/04	1242		20.81	init	12.03	5.93	0.772	51.0	23.4	6.94	clear
	1247		21.85	0.90	11.77	6.34	0.735	18.7	42	3.28	
	1252		21.02	1.4	12.40	6.57	0.722	14.2	-5	1.98	
	1257		20.88	1.9	12.38	6.74	0.725	15.1	-23	1.46	
	1302		20.89	2.1	12.39	6.82	0.728	16.1	-39	1.03	
	1307		20.89	2.3	12.35	6.89	0.724	17.6	-51	0.70	
	1312		20.98	2.6	12.32	6.92	0.720	19.9	-57	0.56	
	1313	Collect Sample & dup.									
	1445		21.60	final	13.37	6.94	0.721	1.2	-5	5.69	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None

Duplicate

KH30165

MS/MSD:

Split:

Sample Collection Date: 10/4/04

Sample Collection Time: 1313

Prepared by: Sun



# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001/LF10

WELL ID: LF10 - MW05C

SAMPLE NUMBER: KH30167

Samplers: JP/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 11.0 ft.

Static Water Level (Depth to Water): ~~10.3~~ BTP ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/6/04	0903		BTP	init	14.14	6.06	1.40	2.7	146	5.17	clear
	0908		BTP	0.5	15.54	6.41	1.35	0	-5	0.74	
	0913		BTP	1.0	15.60	6.54	1.31	0	-30	0.41	
	0918		BTP	1.5	15.61	6.59	1.32	0	-44	0.39	
	0923		BTP	1.8	15.58	6.61	1.32	0	-52	0.37	
	0928		BTP	2.1	15.55	6.64	1.33	0	-66	0.35	
	0933		↓	2.4	15.54	6.65	1.31	0	-79	0.35	
	0938		↓	2.8	15.24	6.66	1.27	0	-84	0.66	
	0940	Collect sample KH30167 well went dry could not take final readings									

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans / Literature Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD: Split:

Sample Collection Date: 10/6/04 Sample Collection Time: 0940 Prepared by: SWH

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001/LF10 WELL ID: LF10-MW00A SAMPLE NUMBER: KH301028  
 Samplers: Bum/McMiller Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/Bladder Pump Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 87.1 ft. Static Water Level (Depth to Water): 71.98 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/11/04	1418		72.45	Initial	17.22	7.60	0.629	7.9	17	4.37	
	1423		73.30	0.4	14.42	7.32	0.679	3.2	-69	3.44	
	1428		73.65	0.6	14.37	7.10	0.684	0.0	-49	6.31	
	1433		73.70	0.8	13.98	7.39	0.679	0.0	-33	8.33	
	1438		73.75	1.0	13.91	7.51	0.677	0.0	-12	9.11	
	1443		73.85	1.5	13.87	7.66	0.676	0.0	10	9.58	
	1448		73.75	2.0	13.86	7.71	0.676	0.0	21	9.75	
	1453		73.75	2.5	13.87	7.74	0.675	0.0	21	9.77	
	1458		73.75	3.0	14.05	7.77	0.675	0.0	5	9.82	
	1503		73.75	3.5	14.19	7.80	0.674	0.0	6	9.92	
	1508		73.75	4.0	14.06	7.81	0.675	0.0	17	10.30	
	1513		73.75	4.5	13.87	7.81	0.675	0.0	36	11.08	
	1518		73.75	5.0	13.94	7.84	0.680	0.0	47	11.03	
10/10	1523		73.75	Final	14.31	7.92	0.681	0.0	77	12.05	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD: Split:

Sample Collection Date: 10/11/04 Sample Collection Time: 1520 Prepared by: McMiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 011/LF10 WELL ID: LF10-MW06A DUP SAMPLE NUMBER: KH30169  
 Samplers: McNitt/Buhl Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ Bailer Target Purge Volume: 26.8 gal. 66.89  
 Sounding (Depth to Well Bottom): 67.73 ft. Static Water Level (Depth to Water): 13.89 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/11/04	1232		—	—	15.19	8.13	0.843	999	34	6.710	mucky
											bailed enough water to fill 1/4 full and take readings - well dry
10/12/04	0857		—	—							Collect sample

Test Parameters (Circle Applicable): VOC (HCl) ☒ Total Metals (HNO<sub>3</sub>) ☒ Filtered Metals (HNO<sub>3</sub>) ☒ Methane/Ethane/Ethene (HCl) ☒ Sulfate ☒ Nitrate (H<sub>2</sub>SO<sub>4</sub>) ☒

SVOC ☒ Pesticides / PCBs ☒ Cyanide (NaOH) ☒ Ammonia (H<sub>2</sub>SO<sub>4</sub>) ☒ Dioxin / Furans ☒ Extra Extractable ☒

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD Split:  

Sample Collection Date: 10/12/04 Sample Collection Time: 0857 Prepared by: SWH

only 2 Vials

Purge Volume Calculation:

LF10 - MW006A DUP

Well Depth 107.73 ft

Depth to Water (DTW) 106.89 ft

- (1) Well Casing Water Volume

$$V_c = \pi (r_{\text{well}}^2) \times (\text{Well Depth} - \text{DTW}) \times (1 \text{ ft}^2 / 144 \text{ in.}^2) \times (7.48 \text{ gal/ft}^3)$$

For 2" Well

$$V_c = (0.163) \times (\text{Well Depth} - \text{DTW})$$

$$V_c = (0.163) \times (107.73 - 106.89)$$

$$V_c = 0.137 \text{ gal}$$

For 4" Well

$$V_c = (0.653) \times (\text{Well Depth} - \text{DTW})$$

$$V_c = (0.653) \times (\text{ } - \text{ })$$

$$V_c = \text{ } \text{ gal}$$

- (2) Filter Pack Water Volume

$$V_f = \pi (R_{\text{BORE}}^2 - r_{\text{WELL}}^2) \times (\text{Saturated Filter Pack Length}) \times (\text{Porosity}) \times (1 \text{ ft}^2 / 144 \text{ in.}^2) \times (7.48 \text{ gal/ft}^3)$$

\*\*Assume 0.30 porosity, 8" borehole diameter\*\*

$$V_f = (0.734) \times (\text{Filter Pack Length})$$

Filter Pack Length (from well construction summary sheet) 12'

$$V_f = 8.81 \text{ gal}$$

- (3) Total Purge Volume

$$V_T = 3 \times (V_c + V_f)$$

$$V_T = 3 \times (0.137 + 8.81)$$

$$V_T = 26.8 \text{ gal}$$

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: 001 / LF10 WELL ID: LF10-MW06B SAMPLE NUMBER: KH 30170  
 Samplers: Bum / mchiller Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge / Bladder Pump Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 44 ft. Static Water Level (Depth to Water): 34.57 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/11/04	1012		35.74	Initial	13.15	7.00	0.830	2.4	-210	2.22	
	1017		36.48	0.2	13.39	7.31	0.846	5.5	-190	0.88	
	1022		36.97	0.3	13.46	7.24	0.850	2.5	-178	0.84	
	1027		37.22	0.4	13.74	7.22	0.850	7.3	-170	1.01	
	1032		37.10	0.5	13.98	7.25	0.853	9.6	-157	1.19	
	1037		37.25	0.6	14.30	7.26	0.855	5.7	-146	2.47	
	1042		37.70	0.7	13.85	7.24	0.864	4.7	-144	2.24	
	1047		37.90	0.8	13.77	7.22	0.860	5.2	-141	2.05	
	1052		38.04	0.9	13.95	7.24	0.856	1.4	-137	2.63	
	1057		38.10	1.0	13.92	7.25	0.857	2.0	-134	2.97	
	1102		38.16	1.1	14.15	7.26	0.855	2.2	-131	3.14	
	1107		38.19	1.2	14.30	7.27	0.857	4.0	-130	3.22	
	1112		38.19	1.3	14.34	7.27	0.859	4.4	-128	3.23	
	1117		38.20	1.4	14.69	7.28	0.858	3.9	-128	3.23	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/11/04 Sample Collection Time: 1200 Prepared by: mchiller

WELL ID: 450-MW06B

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# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF10

WELL ID: LF10 - MW07A

SAMPLE NUMBER: KH30172

Samplers: KH, BF

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 82.0 ft.

Static Water Level (Depth to Water): 51.07 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/11/04	1430	1.5T.	51.17	1.5T.	13.99	7.78	0.822	20.4	-169	8.46	CLEAR
	1435	0.10	51.17	0.50	13.65	7.36	0.869	22.9	-171	2.77	"
	1440	0.10	51.17	1.00	13.61	7.24	0.860	22.1	-169	1.87	"
	1445	0.10	51.17	1.50	13.67	7.20	0.866	20.1	-168	1.08	"
	1450	0.10	51.17	2.00	13.45	7.22	0.871	15.9	-171	1.55	"
	1455	0.10	51.17	2.50	13.43	7.26	0.872	8.8	-176	0.40	"
	1500	0.10	51.17	3.00	13.41	7.30	0.874	4.7	-179	0.47	"
	1503		SAMPLE	#			KH30172	KH30171			
	1552	FINAL	51.17	FINAL	14.00	7.45	0.890	0	-179	9.97	"
						7.5					

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: KH30171 MS/MSD: Split:

Sample Collection Date: 10/11/04 Sample Collection Time: 1503 Prepared by: LYLE HAVENS



WPAFB/ Fairborn, OH  
PROJECT 829564

Page 1 of 1

Static Water Level (Depth to Water): 29.16 ft.

[illegible]

Extra ~~Extractable~~

Sample Collection Date: N/A Sample Collection Time: N/A Prepared by: McKeller

**Purge Volume Calculation:** LFO MW07B

Well Depth 36 ft      Depth to Water (DTW) 29.16 ft

- (1) Well Casing Water Volume

$$V_c = \pi (r_{\text{well}}^2) \times (\text{Well Depth} - \text{DTW}) \times (1 \text{ ft}^2 / 144 \text{ in.}^2) \times (7.48 \text{ gal/ft}^3)$$

**For 2" Well**

$$V_c = (0.163) \times (\text{Well Depth} - \text{DTW})$$

$$V_c = (0.163) \times (\underline{36} - \underline{29.16})$$

$$V_c = \underline{1.11} \text{ gal}$$

**For 4" Well**

$$V_c = (0.653) \times (\text{Well Depth} - \text{DTW})$$

$$V_c = (0.653) \times (\underline{\hspace{1cm}} - \underline{\hspace{1cm}})$$

$$V_c = \underline{\hspace{1cm}} \text{ gal}$$

- (2) Filter Pack Water Volume

$$V_f = \pi (R_{\text{BORE}}^2 - r_{\text{WELL}}^2) \times (\text{Saturated Filter Pack Length}) \times (\text{Porosity}) \times (1 \text{ ft}^2 / 144 \text{ in.}^2) \times (7.48 \text{ gal/ft}^3)$$

**\*\*Assume 0.30 porosity, 8" borehole diameter\*\***

$$V_f = (0.734) \times (\text{Filter Pack Length})$$

Filter Pack Length (from well construction summary sheet) 7

$$V_f = \underline{5.14} \text{ gal}$$

- (3) Total Purge Volume

$$V_T = 3 \times (V_c + V_f)$$

$$V_T = 3 \times (\underline{1.11} + \underline{5.14})$$

$$V_T = \underline{18.7} \text{ gal}$$

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: 001 / LF10

WELL ID: LF10-MW07C

SAMPLE NUMBER: 12H30174

Samplers: KH / BF

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / PERISTALTIC PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 18.0 ft.

Static Water Level (Depth to Water): 14.66 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/11/04	0850	INT	14.79	WT	14.66	6.34	1.49	21.2	182	7.96	clear
	0855	0.02	14.89	0.10	15.06	6.64	1.50	15.1	146	3.60	"
	0900	0.02	14.96	0.20	15.49	6.63	1.49	7.9	137	2.48	"
	0905	0.02	14.98	0.30	15.50	6.68	1.49	5.3	134	2.40	"
	0910	0.02	15.02	0.40	15.59	6.70	1.49	5.3	130	2.02	"
	0915	0.02	15.10	0.50	15.93	6.68	1.48	3.1	128	2.12	"
	0920	0.02	15.16	0.60	16.23	6.68	1.48	2.0	125	2.07	"
	0925	0.02	15.24	0.70	15.95	6.69	1.49	0.3	122	2.03	"
	0930	0.02	15.30	0.80	16.12	6.69	1.48	0	116	1.87	"
	0935	0.02	15.38	0.90	16.63	6.67	1.48	0	110	1.56	" / INCREASED PUMP RATE
	0940	0.04	15.45	1.10	16.77	6.67	1.48	0	107	1.53	"
	0945	0.04	15.51	1.30	16.84	6.67	1.48	0	105	1.47	"
	0950	0.04	15.54	1.50	16.89	6.66	1.48	0	104	1.42	"
	0955	0.04	15.58	1.70	16.72	6.67	1.48	0	103	1.41	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra-Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: — MS/MSD: — Split: —

Sample Collection Date: 10/11/04 Sample Collection Time: 1012 Prepared by: KYLE HAVENS

WELL ID: LF10 - MW07C

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# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: 001 / LF10 WELL ID: LF10-MW08A-2 SAMPLE NUMBER: KH30175  
Samplers: KH, BF Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
Purging Method / Equipment: Micropurge/ BLADDER PUMP Target Purge Volume: 2 gal.  
Sounding (Depth to Well Bottom): 92.2 ft. Static Water Level (Depth to Water): 67.65 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µM) M/CM	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/13/04	0844	1.01	67.65	1.01	14.72	6.15	0.565	0	172	10.23	CLEAR
	0849	0.02	69.74	0.10	13.60	7.17	0.578	0	79	9.32	"
	0854	0.02	69.74	0.20	13.45	7.42	0.615	4.6	-34	5.69	"
	0859	0.02	69.74	0.30	13.58	8.39	0.659	5.7	-11	4.88	"
	0904	0.02	69.74	0.40	13.85	9.22	0.608	13.2	-17	5.35	"
	0909	0.02	69.74	0.50	13.75	9.02	0.682	13.0	2	5.34	"
	0914	0.02	69.74	0.60	13.74	7.88	0.690	8.5	51	3.67	"
	0919	0.02	69.74	0.70	13.71	7.31	0.742	7.8	46	2.54	"
	0924	0.02	69.74	0.80	13.73	7.22	0.760	5.8	22	2.33	"
	0929	0.04	69.74	1.00	13.72	7.16	0.767	4.3	-6	2.06	"
	0934	0.02	69.74	1.10	13.66	7.11	0.775	2.0	-33	1.87	"
	0939	0.02	69.74	1.20	13.73	7.07	0.779	0	-51	1.67	"
	0944	0.02	69.74	1.30	13.72	7.04	0.787	0	-62	1.50	"
	0949	0.02	69.74	1.40	13.77	7.01	0.792	0	-72	1.24	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate MS/MSD Split OEPA

Sample Collection Date: 10/13/04 Sample Collection Time: 1030 Prepared by: KYLE HAVENS



[illegible]

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF10

WELL ID: LF10 - MW08B

SAMPLE NUMBER: KH30176

Samplers: KH, BT

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 18.70 ft.

Static Water Level (Depth to Water): KH 48.94 11.95 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/18/04	1316	WT	BTOP	INT							WATER VERY SILTY NO READING TAKEN
	1318	0.04	BTOP	0.20	13.10	7.11	2.97	284.0	-46	8.60	SILTY
	1323	0.04	BTOP	0.40	14.43	6.87	3.09	158.0	-54	7.50	"
	1328	0.00	BTOP	0.70	13.29	6.83	3.00	99.3	-49	5.52	"
	1333	0.04	BTOP	0.90	13.70	6.80	3.09	52.5	-54	0.88	CLEARING
	1338	0.04	BTOP	1.10	14.33	6.84	3.07	25.7	-58	0.74	CLEAR
	1343	0.00	BTOP	1.40	14.43	6.84	3.08	15.2	-58	1.01	"
	1348	0.00	BTOP	1.70	14.46	6.81	3.08	6.3	-57	0.61	"
	1353	0.00	BTOP	2.00	14.49	6.80	3.08	1.8	-58	0.39	"
	1358	0.00	BTOP	2.30	14.55	6.80	3.08	0.3	-59	0.27	"
	1403	0.04	BTOP	2.50	14.60	6.80	3.09	0.5	-59	0.26	"
	1405	SAMPLE		KH 30176							
	1425	FINAL	BTOP	FINAL	14.70	6.80	3.07	0.2	-48	4.76	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: — MS/MSD: — Split: —

Sample Collection Date: 10/18/04 Sample Collection Time: 1405 Prepared by: KYLE HAVENS

\* BTOP = BELOW TOP OF PUMP

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF10

WELL ID: LF10 - M.W.09A

SAMPLE NUMBER: KH30177

Samplers: SP/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 88 ft.

Static Water Level (Depth to Water): 51.66 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/11/04	0850		52.17	mit	13.97	6.04	0.381	0	729	9.67	clear
	0855		54.09	0.5	12.12	6.50	0.561	24.8	209	6.27	
	0900		53.77	0.9	11.91	6.77	0.594	44.2	146	2.56	
	0905		53.54	1.0	12.13	6.91	0.598	37.7	123	1.97	
	0910		53.63	1.2	12.07	7.03	0.600	19.4	106	1.72	
	0915		53.56	1.5	12.15	7.07	0.599	12.0	96	1.61	
	0920		53.48	1.6	12.20	7.11	0.600	13.3	61	1.40	
	0925		53.88	1.9	12.21	7.12	0.599	8.8	-25	1.28	
	0930		53.74	2.0	12.19	7.13	0.599	2.5	-63	1.08	
	0935		53.54	2.1	12.31	7.14	0.599	2.3	-89	0.92	
	0940		53.48	2.25	12.35	7.15	0.599	0.6	-105	0.88	
	0942	Collect sample									
	1040		53.55	final	12.75	7.24	0.601	0	-125	5.45	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/11/04 Sample Collection Time: 0942 Prepared by: SW/lt

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF10

WELL ID: LF10 - MW09B

SAMPLE NUMBER: KH30178

Samplers: JP/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / Wabber

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 60.2 ft.

Static Water Level (Depth to Water): 50.89 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) <del>ms/cm</del>	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/11/04	1055		50.89	init	14.89	7.32	0.950	33.1	71	9.57	black "fluores"
	1100		50.93	0.2	13.24	6.96	0.970	239.0	-116	1.97	emptied cell
	1105		50.95	0.6	13.00	6.96	0.990	4.2	-152	1.45	
	1110		50.93	1.0	12.99	7.02	0.990	11.5	-163	0.55	
	1115		50.95	1.3	12.63	7.03	0.990	0	-166	0.41	
	1120		50.96	1.9	12.50	7.04	0.990	0	-169	0.28	
	1125		50.95	2.4	12.41	7.05	0.990	0	-172	0.25	
	1130		50.95	3.0	12.38	7.06	0.980	0	-174	0.24	
	1135		50.95	3.5	12.34	7.06	0.990	0	-175	0.29	
	1137	Collect samples									
	1242		50.94	final	12.82	7.05	1.00	24.3	-148	6.39	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_

MS/MSD

KH30178 MS

KH30178 MSD

Split: \_\_\_\_\_

Sample Collection Date: 10/11/04

Sample Collection Time: 1137

Prepared by: SW

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 2

SITE ID: OU1 / LF10

WELL ID: LF10 - MW09C

SAMPLE NUMBER: KH 30179

Samplers: JP/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 44.2 ft.

Static Water Level (Depth to Water): 35.25 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. <del>(mV)</del> <u>ms/cm</u>	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/11/04	1253		35.66	init	13.73	7.08	0.94	120	9	6.71	biomass! Red!
	1258		35.55	0.3	12.86	7.00	0.95	750	-73	4.51	biomass
	1303		35.64	1.0	12.79	6.97	0.95	287	-73	3.11	biomass clearing
	1308		35.56	1.3	13.09	6.99	0.95	129	-74	3.33	
	1313		35.60	1.6	12.84	6.98	0.95	174	-74	2.57	
	1318		35.60	1.9	12.80	7.00	0.94	72.2	-77	2.65	
	1323		35.62	2.0	12.77	6.99	0.94	166.6	-77	2.46	
	1328		35.61	2.25	12.79	7.00	0.94	64.7	-78	2.39	
	1333		35.65	2.75	12.80	7.01	0.94	37.7	-79	2.36	
	1338		35.65	3.0	12.90	7.04	0.94	27.4	-76	9.74	empty cell
	1343		35.65	3.1	12.88	7.06	0.95	33.1	-81	4.15	
	1348		35.67	3.6	12.66	7.13	0.94	46.8	-84	9.88	
	1353		35.67	3.8	12.75	7.06	0.988	111.0	-85	3.65	
	1358		35.53	3.9	13.12	7.05	0.998	67.4	-84	3.14	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/11/04 Sample Collection Time: 1420 Prepared by: SWJ

WELL ID:

LF10-MW09C

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Page

\_\_\_\_\_ of

2

Collect sample





Shaw Environmental & Infrastructure, Inc.

# Groundwater Purge Log

WPAFB/ Fairborn, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU1 / LF10

WELL ID: LF10 - MND10C

SAMPLE NUMBER: KH30185

Samplers: KH, BF

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 68.0 ft.

Static Water Level (Depth to Water): 48.80 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/6/04	1432	1 NT	48.80	1 NT	14.11	7.89	0.845	21.0	31	6.03	CLEAR
	1437	0.1	48.80	0.50	13.92	7.17	0.777	0.3	-37	1.72	"
	1442	0.1	48.80	1.00	13.83	6.96	0.776	0	-36	0.24	"
	1447	0.1	48.80	1.50	13.63	6.88	0.772	0	-39	0	"
	1452	0.1	48.80	2.00	13.75	6.88	0.773	0	-37	0	"
	1457	0.1	48.80	2.50	13.79	7.00	0.775	0	-41	0	"
	1502	0.1	48.80	3.00	13.74	7.07	0.774	0	-44	0	"
	1507	0.1	48.80	3.50	13.63	7.09	0.775	0	-45	0	"
	1510	SAMPLE		IF KH30185					(KH) 28		
	1530	P.M.C.	48.80	P.M.C.	14.27	7.17	0.775	0	-29	0.61	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: AMBIENT KH30185 MS/MSD: Split:

Sample Collection Date: 10/6/04 Sample Collection Time: 1510 Prepared by: KYLE HAVENS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 / LF10

WELL ID: LF10 - MW11A

SAMPLE NUMBER: KH 30186

Samplers: JP/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / Ladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 74 ft.

Static Water Level (Depth to Water): 30.47 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. <del>mg/l</del> mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/11/04	1520		31.88	init	12.49	7.46	0.603	196.0	-74	3.01	
	1525		31.11	0.5	13.17	7.08	0.644	186.0	-90	1.91	
	1530		31.16	1.0	13.02	7.11	0.635	58.4	-98	2.8	
	1535		31.13	1.2	12.81	7.17	0.629	34.8	-108	3.06	
	1540		31.15	1.6	12.89	7.25	0.613	38.7	-119	4.03	
	1545		31.08	2.0	12.97	7.28	0.606	37.8	-119	4.55	
	1550		31.09	2.2	12.96	7.30	0.604	37.0	-121	3.60	
	1555	Recalibrate H2O level									
	1557		31.12	2.6	13.12	6.21	0.602	15.2	-1	11.42	
	1602		31.13	2.7	12.94	6.49	0.613	50.6	-99	3.52	
	1607		31.11	3.0	12.88	6.47	0.649	7.1	-126	2.99	
	1610	Collect sample									
	1653		31.14	final	13.30	7.05	0.604	0	-123	4.98	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/11/04 Sample Collection Time: 1610 Prepared by: Swett

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU1 / LF10

WELL ID: LF10 - MW11B

SAMPLE NUMBER: KH30188

Samplers: JP/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 43 ft.

Static Water Level (Depth to Water): 28.31 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/12/04	1300		28.73	init	13.35	6.87	0.92	247.0	-119	3.15	biomass
	1305		28.72	0.6	12.76	6.82	0.990	302.0	-133	0.80	
	1310		28.72	1.0	12.96	6.83	0.994	88.5	-132	1.61	emptied cell
	1315		28.68	1.4	13.40	6.85	0.92	58.6	-133	0.96	
	1320		28.63	1.5	13.72	6.85	0.92	43.3	-133	1.05	
	1325		28.71	1.8	13.16	6.86	0.984	36.9	-134	0.86	
	1330		28.70	2.0	13.00	6.87	0.987	27.6	-132	1.05	
	1335		28.73	2.2	12.66	6.89	0.986	23.4	-127	4.03	emptied cell
	1340		28.78	2.6	12.64	6.88	0.985	20.2	-127	1.25	
	1345		28.72	2.9	12.76	6.89	0.986	16.6	-127	1.30	
	1347	Collect sample									
	1457		28.81	Final	14.81	6.91	0.920	17.2	-122	4.18	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: KH30187 MS/MSD: Split:

Sample Collection Date: 10/12/04 Sample Collection Time: 1347 Prepared by: SWH



# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 001 - LF10

WELL ID: LF10-MW103

SAMPLE NUMBER: KH30181

Samplers: JP/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 42 ft.

Static Water Level (Depth to Water): 32.26 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mM) $\mu S/cm$	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/6/04	1330		32.94	init	18.32	7.62	0.962	12.3	238	8.84	clear w/ white floating debris
	1335		34.16	0.2	15.56	6.58	1.38	10.6	-112	3.54	
	1340		35.88	0.5	14.82	6.49	1.60	3.1	-115	1.12	
	1345		36.50	0.8	14.96	6.49	1.66	14.6	-118	1.15	
	1350		36.93	0.9	15.01	6.49	1.65	5.4	-121	1.92	
	1355		37.20	1.0	16.20	6.50	1.66	10.2	-122	2.18	
	1400		37.29	1.05	16.51	6.50	1.65	9.8	-122	2.35	
	1405		38.03	1.1	16.19	6.53	1.45	36.5	-120	2.20	
	1410		38.75	1.2	15.81	6.60	0.99	32.0	-118	2.09	
	1415		39.21	1.3	15.72	6.66	0.936	26.4	-120	2.20	
	1420		39.39	1.4	15.70	6.73	0.862	21.1	-125	2.42	
	1425		39.55	1.5	15.73	6.80	0.830	15.5	-129	2.65	@ top of pump
	1430		well dry								BTP
10/7/04	0842		33.48	init	15.15	6.23	0.794	24.7	205	8.56	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/7/04 Sample Collection Time: 0845 Prepared by: SWH

Collected only 1L of SVOC, Diox, Pest/PCB





# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OVI / LF10

WELL ID: LF10 - MW1e5

SAMPLE NUMBER: KH 30183

Samplers: JP/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ bladder pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 65 ft.

Static Water Level (Depth to Water): 46.10 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/6/04	1515		46.79	init	17.17	7.32	0.576	56.9	41	10.88	clear
	1520		48.71	0.2	14.45	7.60	0.580	43.4	53	6.33	
	1525		49.74	0.5	15.42	7.56	0.583	41.0	32	2.92	
	1530		50.85	0.8	15.85	7.56	0.589	35.8	14	1.93	
	1535		51.68	1.0	15.76	7.55	0.592	33.4	-2	1.44	
	1540		52.45	1.1	15.75	7.56	0.592	32.4	-9	1.26	
	1545		56.29	1.9	13.14	7.60	0.593	30.5	-19	0.66	
	1550		58.83	2.2	13.17	7.59	0.593	23.4	-22	0.63	
	1555	BTP @ 59.56		2.8	13.40	7.57	0.592	21.3	-20	0.68	
	1600	BTP		2.9	14.23	7.51	0.592	18.2	-15	0.85	well dry
10/7/04	0945		56.03	No Horiba readings							
	0947			Collect sample							

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/7/04 Sample Collection Time: 0947 Prepared by: SWH

collected only 1L for SVOC & Pest/PCB



WPAFB, OH  
PROJECT 829564

Page 1 of 1

WELL ID: 01-DM-1025-M SAMPLE NUMBER: KH30.37

Well Secure (Y/N) 4

Well Casing Diameter : 4 in.

Target Purge Volume: 15.95 gal.

Static Water Level (Depth to Water): 25.82 ft.

[illegible]

Test Parameters (Circle Applicable):					
VOC (HCl)	Total Metals (HNO <sub>3</sub> )	Filtered Metals (HNO <sub>3</sub> )	Methane/Ethane/Ethene (HCl)	Sulfate	Nitrate(H <sub>2</sub> SO <sub>4</sub> )
SVOC	Pesticides / PCBs	Cyanide (NaOH)	Ammonia (H <sub>2</sub> SO <sub>4</sub> )	Dioxin / Furans	Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: MA Sample Collection Time: MA Prepared by: KYU-HAVENS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 2

SITE ID: 001 / LF10

WELL ID: 01-DM-102 D-M

SAMPLE NUMBER: KH 30136

Samplers: Bur / McMiller

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / Bladder Pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 98.0 ft.

Static Water Level (Depth to Water): 49.00 / 48.94 ft. (10/13/04)

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/11/04	0917		49.03	Initial	13.10	6.36	0.508	216	156	6.09	suspended particles
	0922	- bladder pump not working - pull pump - install new pump									
10/13/04	1408	1.17	49.03	1.17	16.02	9.24	0.296	15.3	25	8.91	Clear
	1413	0.04	49.03	0.20	15.05	9.46	0.298	9.4	13	9.01	u
	1418	0.02	49.03	0.30	14.47	10.12	0.318	7.9	-16	7.35	u
	1423	0.02	49.03	0.40	14.36	10.54	0.363	2.3	-38	5.51	u
	1428	0.02	49.03	0.50	14.36	10.51	0.364	2.1	-39	5.42	u
	1433	0.02	49.03	0.60	14.26	10.34	0.359	1.4	-33	5.79	u
	1438	0.02	49.03	0.70	14.20	9.98	0.344	1.4	-19	4.83	u
	1443	0.02	49.03	0.80	14.31	9.72	0.337	1.0	-7	4.65	u
	1448	0.02	49.03	0.90	14.38	9.44	0.340	1.6	3	4.56	u
	1453	0.02	49.03	1.00	14.35	9.21	0.355	1.1	13	4.33	u
	1458	0.02	49.03	1.10	14.28	8.98	0.379	0.2	23	4.13	u
	1503	0.02	49.03	1.20	14.27	8.91	0.390	0	26	4.09	u

Test Parameters (Circle Applicable): VOC (HCl) SVOC Total Metals (HNO<sub>3</sub>) Pesticides / PCBs Cyanide (NaOH) Filtered Metals (HNO<sub>3</sub>) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Methane/Ethane/Ethene (HCl) Dioxin / Furans Sulfate Extra Extractable Nitrate (H<sub>2</sub>SO<sub>4</sub>)

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD Split: Split

Sample Collection Date: 10/13/04 Sample Collection Time: 1535 Prepared by: McMiller  
K HAVENS



# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 2

SITE ID: 001 / LF10

WELL ID: 01-004-M

SAMPLE NUMBER: KH 30135

Samplers: KH, BU

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BEADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 63.0 ft.

Static Water Level (Depth to Water): 36.39 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/29/01	0933	1.0T	36.39	1.0T		NO READINGS	MS/CM	Bio	MASS		DARK ORANGE
	0938	0.20	36.39	1.00		NO READINGS		Bio	MASS		DARK ORANGE
	0943	0.20	36.39	2.00		NO READINGS		Bio	MASS		LIGHT ORANGE
	0948	0.20	36.39	3.00		NO READINGS		Bio	MASS		LIGHT ORANGE
	0953	0.20	36.39	4.00		NO READINGS		Bio	MASS		LIGHT ORANGE
	0958	0.20	36.39	5.00		NO READINGS		Bio	MASS		CLEARING
	1002	0.06	36.39	5.30	11.91	6.42	1.12	519.0	205	5.84	"
	1007	0.02	36.39	5.40	12.01	6.70	1.10	450.0	191	3.81	"
	1012	0.06	36.39	5.70	12.02	6.85	1.09	455.0	172	3.58	LIGHT ORANGE / Bio MASS
	1017	0.04	36.39	5.90	12.07	6.92	1.08	390.0	136	3.53	" "
	1022	0.06	36.39	6.20	12.11	6.98	1.07	220.0	28	3.65	CLEANED HORIBA CELL
	1027	0.06	36.39	6.50	12.02	7.02	1.07	270.0	25	3.48	LIGHT ORANGE / Bio MASS
	1032	0.06	36.39	6.80	12.03	7.05	1.07	250.0	12	3.48	" "
	1037	0.04		7.00	12.05	7.06	1.07	255.0	10	3.47	" "

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD: Split:

Sample Collection Date: 10/20/01 Sample Collection Time: 1100 Prepared by: KYLE HAVENS

WELL ID:

01-004-M

Page 2 of 2[illegible]







Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: No COC

Location Code: LF8/10-EFF

Task: 03180100

Sample Number: KQ30031

Collection Date: 28-JUL-04

Sample Name: LF8/10-EFF-EW-KQ30031-REG

Collection Time: 12:40

Sampling Method: WF

Start Depth:

Sample Type: EW

Sample Purpose: REG

End Depth:

Sample Matrix: WL

Sample Team:

Analytical Suite	Containers				
	Flt	Frtn	Qty	Size	Units Type
VOC	N	a	3	40	ML VOA Vial
METALS	N	b	1	1	L HDPE
COD	N	c	1	500	ML HDPE
OIL_GREASE	N	d	1	1	L Amb. Glass
PH	N	e	1	500	ML HDPE
TSS	N	e	1	500	ML HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: No COC

Location Code: FIELDQC

Task: 03180100

Sample Number: KQ30032

Collection Date: 28-JUL-04

Sample Name: FIELDQC-WA-KQ30032-TB

Collection Time: 12:30

Sampling Method: G

Start Depth:

Sample Type: WA

Sample Purpose: TB

End Depth:

Sample Matrix: W

Sample Team:

Containers					
Analytical Suite	Flt	Frtn	Qty	Size	Units Type
VOC	N	a	2	40	ML VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KQ041021

Location Code: LF8/10-EFF

Task: 04200100

Sample Number: KQ30033

Collection Date: 21-OCT-04

Sample Name: LF8/10-EFF-EW-KQ30033-REG

Collection Time: 08:50

Sampling Method: G

Start Depth:

Sample Type: EW

Sample Purpose: REG

End Depth:

Sample Matrix: WL

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
PH	N	C	1	500	ML	HDPE
TSS	N	C	1	500	ML	HDPE
COD	N	D	1	250	ML	HDPE
OIL_GREASE	N	E	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041020

Location Code: 01-004-M

Task: 04200100

Sample Number: KH30135

Collection Date: 20-OCT-04

Sample Name: 01-004-M-GW-KH30135-REG

Collection Time: 11:00

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041013

Location Code: 01-DM-102D-M

Task: 04200100

Sample Number: KH30136

Collection Date: 13-OCT-04

Sample Name: 01-DM-102D-M-GW-KH30136-REG

Collection Time: 15:35

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

**829564 - WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **NONE**

Location Code: **01-DM-102S-M**

Task: **04200100**

Sample Number: **KH30137**

Collection Date: **N/A**

Sample Name: **01-DM-102S-M-GW-KH30137-REG**

Collection Time: **N/A**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sampling Equip:

Sample Matrix: **WG**

QC Partners:

Sample Team:

(TB)

(ER)

(FB)

## Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

## Groundwater Information:

Measured Well Depth:

Depth To Water:

Comments: **Samples not collected - well dry**

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041005

Location Code: 02-DM-81D-M

Task: 04200100

Sample Number: KH30138

Collection Date: 05-OCT-04

Sample Name: 02-DM-81D-M-GW-KH30138-REG

Collection Time: 16:09

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041005

Location Code: 02-DM-81S-M

Task: 04200100

Sample Number: KH30139

Collection Date: 05-OCT-04

Sample Name: 02-DM-81S-M-GW-KH30139-REG

Collection Time: 14:00

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

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RFA / COC Number: KH041005

Location Code: 02-DM-82-M

Task: 04200100

Sample Number: KH30140

Collection Date: 05-OCT-04

Sample Name: 02-DM-82-M-GW-KH30140-REG

Collection Time: 10:17

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Savecode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041020

Location Code: 02-DM-83D-M

Task: 04200100

Sample Number: KH30141

Collection Date: 20-OCT-04

Sample Name: 02-DM-83D-M-GW-KH30141-REG

Collection Time: 11:20

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041020

Location Code: 02-DM-83S-M

Task: 04200100

Sample Number: KH30142

Collection Date: 20-OCT-04

Sample Name: 02-DM-83S-M-GW-KH30142-REG

Collection Time: 14:23

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041018

Location Code: 02-DM-84-M

Task: 04200100

Sample Number: KH30143

Collection Date: 18-OCT-04

Sample Name: 02-DM-84-M-GW-KH30143-FD

Collection Time: 09:28

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: FD

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041018

Location Code: 02-DM-84-M

Task: 04200100

Sample Number: KH30144

Collection Date: 18-OCT-04

Sample Name: 02-DM-84-M-GW-KH30144-REG

Collection Time: 09:28

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

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829564 - WPAFB

Manager: Joe Tyburski

RFA / COC Number: **NONE**

Location Code: **LF08-MP013**

Task: **04200100**

Sample Number: **KH30145**

Collection Date: **N/A**

Sample Name: **LF08-MP013-GW-KH30145-REG**

Collection Time: **N/A**

Sampling Method: **PP**

Start Depth: \_\_\_\_\_

Sample Type: **GW**

Sample Purpose: **REG**

End Depth: \_\_\_\_\_

Sampling Equip: \_\_\_\_\_

Sample Matrix: **WG**

QC Partners: \_\_\_\_\_

Sample Team: \_\_\_\_\_

(TB)

(ER)

(FB)

## Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode: \_\_\_\_\_

Lot Control#: \_\_\_\_\_

## Groundwater Information:

Measured Well Depth: \_\_\_\_\_

Depth To Water: \_\_\_\_\_

Comments: **Samples not collected - well dry**

Sketch Location: \_\_\_\_\_

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041005

Location Code: LF08-MW02A

Task: 04200100

Sample Number: KH30146

Collection Date: 05-OCT-04

Sample Name: LF08-MW02A-GW-KH30146-REG

Collection Time: 14:10

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041006

Location Code: LF08-MW02C

Task: 04200100

Sample Number: KH30147

Collection Date: 06-OCT-04

Sample Name: LF08-MW02C-GW-KH30147-REG

Collection Time: 09:38

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041005

Location Code: LF08-MW05B

Task: 04200100

Sample Number: KH30148

Collection Date: 05-OCT-04

Sample Name: LF08-MW05B-GW-KH30148-FD

Collection Time: 09:52

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: FD

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: KH041005**

Location Code: **LF08-MW05B**

Task: **04200100**

Sample Number: **KH30149**

Collection Date: **05-OCT-04**

Sample Name: **LF08-MW05B-GW-KH30149-REG**

Collection Time: **09:52**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



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# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

Page 1 of 1

RFA / COC Number: KH041005

Location Code: LF08-MW08A

Task: 04200100

Sample Number: KH30150

Collection Date: 05-OCT-04

Sample Name: LF08-MW08A-GW-KH30150-REG

Collection Time: 13:25

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041005

Location Code: LF08-MW08B

Task: 04200100

Sample Number: KH30151

Collection Date: 05-OCT-04

Sample Name: LF08-MW08B-GW-KH30151-REG

Collection Time: 09:52

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041005

Location Code: LF08-MW08C

Task: 04200100

Sample Number: KH30152

Collection Date: 05-OCT-04

Sample Name: LF08-MW08C-GW-KH30152-REG

Collection Time: 15:25

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041018

Location Code: LF08-MW09A

Task: 04200100

Sample Number: KH30153

Collection Date: 18-OCT-04

Sample Name: LF08-MW09A-GW-KH30153-REG

Collection Time: 14:37

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: KH041018**

Location Code: **LF08-MW09B**

Task: **04200100**

Sample Number: **KH30154**

Collection Date: **18-OCT-04**

Sample Name: **LF08-MW09B-GW-KH30154-REG**

Collection Time: **09:32**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: KH041018**

Location Code: **LF08-MW09B**

Task: **04200100**

Sample Number: **KH30154MS**

Collection Date: **18-OCT-04**

Sample Name: **LF08-MW09B-GW-KH30154MS-MS**

Collection Time: **09:32**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **MS**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **KH041018**

Location Code: **LF08-MW09B**

Task: **04200100**

Sample Number: **KH30154MSD**

Collection Date: **18-OCT-04**

Sample Name: **LF08-MW09B-GW-KH30154MSD-MSD**

Collection Time: **09:32**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **MSD**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041004

Location Code: LF08-MW101

Task: 04200100

Sample Number: KH30155

Collection Date: 04-OCT-04

Sample Name: LF08-MW101-GW-KH30155-REG

Collection Time: 13:33

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041006

Location Code: LF08-MW102

Task: 04200100

Sample Number: KH30156

Collection Date: 06-OCT-04

Sample Name: LF08-MW102-GW-KH30156-REG

Collection Time: 11:50

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041006

Location Code: LF08-MW103

Task: 04200100

Sample Number: KH30157

Collection Date: 06-OCT-04

Sample Name: LF08-MW103-GW-KH30157-REG

Collection Time: 11:05

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sitecode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:



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# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041020

Location Code: LF08-MW10A

Task: 04200100

Sample Number: KH30158

Collection Date: 20-OCT-04

Sample Name: LF08-MW10A-GW-KH30158-REG

Collection Time: 09:33

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041012

Location Code: **LF08-MW10B**

Task: **04200100**

Sample Number: **KH30159**

Collection Date: **12-OCT-04**

Sample Name: **LF08-MW10B-GW-KH30159-REG**

Collection Time: **10:32**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041020

Location Code: LF08-MW10C

Task: 04200100

Sample Number: KH30160

Collection Date: 20-OCT-04

Sample Name: LF08-MW10C-GW-KH30160-REG

Collection Time: 17:07

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041013

Location Code: LF08-MW11A

Task: 04200100

Sample Number: KH30161

Collection Date: 13-OCT-04

Sample Name: LF08-MW11A-GW-KH30161-REG

Collection Time: 15:17

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041013

Location Code: LF08-MW11B

Task: 04200100

Sample Number: KH30162

Collection Date: 13-OCT-04

Sample Name: LF08-MW11B-GW-KH30162-REG

Collection Time: 10:30

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041013

Location Code: LF08-MW11B

Task: 04200100

Sample Number: KH30162MS

Collection Date: 13-OCT-04

Sample Name: LF08-MW11B-GW-KH30162MS-MS

Collection Time: 10:30

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: MS

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Secode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041013

Location Code: LF08-MW11B

Task: 04200100

Sample Number: KH30162MSD

Collection Date: 13-OCT-04

Sample Name: LF08-MW11B-GW-KH30162MSD-MSD

Collection Time: 10:30

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: MSD

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041013

Location Code: LF08-MW11C

Task: 04200100

Sample Number: KH30163

Collection Date: 13-OCT-04

Sample Name: LF08-MW11C-GW-KH30163-REG

Collection Time: 15:42

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



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# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

Page 1 of 1

RFA / COC Number: KH041013

Location Code: LF10-MW03A

Task: 04200100

Sample Number: KH30164

Collection Date: 13-OCT-04

Sample Name: LF10-MW03A-GW-KH30164-REG

Collection Time: 16:10

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041004

Location Code: LF10-MW05B

Task: 04200100

Sample Number: KH30165

Collection Date: 04-OCT-04

Sample Name: LF10-MW05B-GW-KH30165-FD

Collection Time: 13:13

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: FD

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041004

Location Code: LF10-MW05B

Task: 04200100

Sample Number: KH30166

Collection Date: 04-OCT-04

Sample Name: LF10-MW05B-GW-KH30166-REG

Collection Time: 13:13

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sucode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041006

Location Code: LF10-MW05C

Task: 04200100

Sample Number: KH30167

Collection Date: 06-OCT-04

Sample Name: LF10-MW05C-GW-KH30167-REG

Collection Time: 09:40

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	1	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sucode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041011

Location Code: LF10-MW06A

Task: 04200100

Sample Number: KH30168

Collection Date: 11-OCT-04

Sample Name: LF10-MW06A-GW-KH30168-REG

Collection Time: 15:20

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041012

Location Code: LF10-MW06ADUP

Task: 04200100

Sample Number: KH30169

Collection Date: 12-OCT-04

Sample Name: LF10-MW06ADUP-GW-KH30169-REG

Collection Time: 08:57

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Containers					
Analytical Suite	Flt	Frtn	Qty	Size	Units Type
VOC	N	A	2	40	ML VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041011

Location Code: LF10-MW06B

Task: 04200100

Sample Number: KH30170

Collection Date: 11-OCT-04

Sample Name: LF10-MW06B-GW-KH30170-REG

Collection Time: 12:00

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:



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# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

Page 1 of 1

RFA / COC Number: KH041011

Location Code: LF10-MW07A

Task: 04200100

Sample Number: KH30171

Collection Date: 11-OCT-04

Sample Name: LF10-MW07A-GW-KH30171-FD

Collection Time: 15:03

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: FD

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041011

Location Code: LF10-MW07A

Task: 04200100

Sample Number: KH30172

Collection Date: 11-OCT-04

Sample Name: LF10-MW07A-GW-KH30172-REG

Collection Time: 15:03

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 - WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **NONE**

Location Code: **LF10-MW07B**

Task: **04200100**

Sample Number: **KH30173**

Collection Date: **N/A**

Sample Name: **LF10-MW07B-GW-KH30173-REG**

Collection Time: **N/A**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sampling Equip:

Sample Matrix: **WG**

QC Partners:

Sample Team:

(TB)

(ER)

(FB)

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

## Groundwater Information:

Measured Well Depth:

Depth To Water:

Comments:

*Samples not collected - not enough water recovered in bailer*

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041011

Location Code: LF10-MW07C

Task: 04200100

Sample Number: KH30174

Collection Date: 11-OCT-04

Sample Name: LF10-MW07C-GW-KH30174-REG

Collection Time: 10:12

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:



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# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

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RFA / COC Number: KH041013

Location Code: LF10-MW08A-2

Task: 04200100

Sample Number: KH30175

Collection Date: 13-OCT-04

Sample Name: LF10-MW08A-2-GW-KH30175-REG

Collection Time: 10:30

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

## Comments:

Split Sample with OEPA

## Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_





Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041018

Location Code: LF10-MW08B

Task: 04200100

Sample Number: KH30176

Collection Date: 18-OCT-04

Sample Name: LF10-MW08B-GW-KH30176-REG

Collection Time: 14:05

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041011

Location Code: LF10-MW09A

Task: 04200100

Sample Number: KH30177

Collection Date: 11-OCT-04

Sample Name: LF10-MW09A-GW-KH30177-REG

Collection Time: 09:42

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

Page 1 of 1

RFA / COC Number: KH041011

Location Code: LF10-MW09B

Task: 04200100

Sample Number: KH30178

Collection Date: 11-OCT-04

Sample Name: LF10-MW09B-GW-KH30178-REG

Collection Time: 11:37

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Secode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041011

Location Code: LF10-MW09B

Task: 04200100

Sample Number: KH30178MS

Collection Date: 11-OCT-04

Sample Name: LF10-MW09B-GW-KH30178MS-MS

Collection Time: 11:37

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: MS

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041011

Location Code: LF10-MW09B

Task: 04200100

Sample Number: KH30178MSD

Collection Date: 11-OCT-04

Sample Name: LF10-MW09B-GW-KH30178MSD-MSD

Collection Time: 11:37

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: MSD

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Secode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

Page 1 of 1

RFA / COC Number: KH041011

Location Code: LF10-MW09C

Task: 04200100

Sample Number: KH30179

Collection Date: 11-OCT-04

Sample Name: LF10-MW09C-GW-KH30179-REG

Collection Time: 14:20

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Secode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 - WPAFB**

Manager: Joe Tyburski

RFA / COC Number: NONE

Location Code: **LF10-MW102**

Task: **04200100**

Sample Number: **KH30180**

Sample Name: **LF10-MW102-GW-KH30180-REG**

Collection Date: N/A

Collection Time: N/A

Sampling Method: **BP**

Start Depth: \_\_\_\_\_

Sample Type: **GW**

Sample Purpose: **REG**

End Depth: \_\_\_\_\_

Sampling Equip: \_\_\_\_\_

Sample Matrix: **WG**

QC Partners: \_\_\_\_\_

Sample Team: \_\_\_\_\_

(TB)

(ER)

(FB)

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode: \_\_\_\_\_

Lot Control#: \_\_\_\_\_

## Groundwater Information:

Measured Well Depth: \_\_\_\_\_

Depth To Water: \_\_\_\_\_

Comments: Samples not collected - well dry

Sketch Location: \_\_\_\_\_

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041007

Location Code: LF10-MW103

Task: 04200100

Sample Number: KH30181

Collection Date: 07-OCT-04

Sample Name: LF10-MW103-GW-KH30181-REG

Collection Time: 08:45

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	1	1	L	Amb. Glass
PEST/PCB	N	D	1	1	L	Amb. Glass
DIOX_FURAN	N	E	1	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Secode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 - WPAFB**

Manager: Joe Tyburski

RFA / COC Number: NONE

Location Code: **LF10-MW104**

Task: **04200100**

Sample Number: **KH30182**

Collection Date: N/A

Sample Name: **LF10-MW104-GW-KH30182-REG**

Collection Time: N/A

Sampling Method: **BP**

Start Depth: \_\_\_\_\_

Sample Type: **GW**

Sample Purpose: **REG**

End Depth: \_\_\_\_\_

Sampling Equip: \_\_\_\_\_

Sample Matrix: **WG**

QC Partners: \_\_\_\_\_

Sample Team: \_\_\_\_\_

(TB) \_\_\_\_\_ (ER) \_\_\_\_\_ (FB) \_\_\_\_\_

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode: \_\_\_\_\_

Lot Control#: \_\_\_\_\_

## Groundwater Information:

Measured Well Depth: \_\_\_\_\_

Depth To Water: \_\_\_\_\_

Comments: Samples not collected - well dry

Sketch Location: \_\_\_\_\_

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **KH041007**

Location Code: **LF10-MW105**

Task: **04200100**

Sample Number: **KH30183**

Collection Date: **07-OCT-04**

Sample Name: **LF10-MW105-GW-KH30183-REG**

Collection Time: **09:47**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	1	1	L	Amb. Glass
PEST/PCB	N	D	1	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE

ERPIMS Values:

Secode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041006

Location Code: LF10-MW10C

Task: 04200100

Sample Number: KH30184

Collection Date: 06-OCT-04

Sample Name: LF10-MW10C-GW-KH30184-AB

Collection Time: 15:10

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: AB

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

Page 1 of 1

RFA / COC Number: KH041006

Location Code: LF10-MW10C

Task: 04200100

Sample Number: KH30185

Collection Date: 06-OCT-04

Sample Name: LF10-MW10C-GW-KH30185-REG

Collection Time: 15:10

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

Page 1 of 1

RFA / COC Number: KH041011

Location Code: LF10-MW11A

Task: 04200100

Sample Number: KH30186

Collection Date: 11-OCT-04

Sample Name: LF10-MW11A-GW-KH30186-REG

Collection Time: 16:10

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041012

Location Code: LF10-MW11B

Task: 04200100

Sample Number: KH30187

Collection Date: 12-OCT-04

Sample Name: LF10-MW11B-GW-KH30187-FD

Collection Time: 13:47

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: FD

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:





Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

Page 1 of 1

RFA / COC Number: KH041012

Location Code: LF10-MW11B

Task: 04200100

Sample Number: KH30188

Collection Date: 12-OCT-04

Sample Name: LF10-MW11B-GW-KH30188-REG

Collection Time: 13:47

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
METALS	N	B	1	1	L	HDPE
SVOC	N	C	2	1	L	Amb. Glass
PEST/PCB	N	D	2	1	L	Amb. Glass
DIOX_FURAN	N	E	2	1	L	Amb. Glass
AMMONIA	N	F	1	250	ML	HDPE
CYANIDE_TOT	N	G	1	250	ML	HDPE
EXTRA_EXTRACT	N	H	1	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041004

Location Code: FIELDQC

Task: 04200100

Sample Number: KH30190

Collection Date: 04-OCT-04

Sample Name: FIELDQC-WA-KH30190-TB

Collection Time: 10:50

Sampling Method: G

Start Depth:

Sample Type: WA

Sample Purpose: TB

End Depth:

Sample Matrix: W

Sample Team:

Containers					
Analytical Suite	Flt	Frtn	Qty	Size	Units Type
VOC	N	a	2	40	ML VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041005

Location Code: FIELDQC

Task: 04200100

Sample Number: KH30191

Collection Date: 05-OCT-04

Sample Name: FIELDQC-WA-KH30191-TB

Collection Time: 07:50

Sampling Method: G

Start Depth:

Sample Type: WA

Sample Purpose: TB

End Depth:

Sample Matrix: W

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	a	2	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: KH041006

Location Code: FIELDQC

Task: 04200100

Sample Number: KH30192

Collection Date: 06-OCT-04

Sample Name: FIELDQC-WA-KH30192-TB

Collection Time: 07:40

Sampling Method: G

Start Depth:

Sample Type: WA

Sample Purpose: TB

End Depth:

Sample Matrix: W

Sample Team:

Analytical Suite	Containers					Units	Type
	Flt	Frtn	Qty	Size			
VOC	N	a	2	40	ML	VOA	Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

Page 1 of 1

RFA / COC Number: KH041011

Location Code: FIELDQC

Task: 04200100

Sample Number: KH30193

Collection Date: 11-OCT-04

Sample Name: FIELDQC-WA-KH30193-TB

Collection Time: 07:45

Sampling Method: G

Start Depth:

Sample Type: WA

Sample Purpose: TB

End Depth:

Sample Matrix: W

Sample Team:

Containers					
Analytical Suite	Flt	Frtn	Qty	Size	Units Type
VOC	N	a	2	40	ML VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: KH041013

Location Code: **FIELDQC**

Task: **04200100**

Sample Number: **KH30194**

Collection Date: **13-OCT-04**

Sample Name: **FIELDQC-WA-KH30194-TB**

Collection Time: **07:45**

Sampling Method: **G**

Start Depth:

Sample Type: **WA**

Sample Purpose: **TB**

End Depth:

Sample Matrix: **W**

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	a	2	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

Page 1 of 1

RFA / COC Number: KH041018

Location Code: FIELDQC

Task: 04200100

Sample Number: KH30195

Collection Date: 18-OCT-04

Sample Name: FIELDQC-WA-KH30195-TB

Collection Time: 07:40

Sampling Method: G

Start Depth:

Sample Type: WA

Sample Purpose: TB

End Depth:

Sample Matrix: W

Sample Team:

Analytical Suite	Containers					Units	Type
	Flt	Frtn	Qty	Size			
VOC	N	a	2	40	ML	VOA	Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_





Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

Page 1 of 1

RFA / COC Number: KH041020

Location Code: FIELDQC

Task: 04200100

Sample Number: KH30196

Collection Date: 20-OCT-04

Sample Name: FIELDQC-WA-KH30196-TB

Collection Time: 07:50

Sampling Method: G

Start Depth:

Sample Type: WA

Sample Purpose: TB

End Depth:

Sample Matrix: W

Sample Team:

Containers					
Analytical Suite	Flt	Frtn	Qty	Size	Units Type
VOC	N	a	2	40	ML VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

**B2**

**OU1 Landfill Gas Monitoring Field Forms: July and September**

OU1  
LANDFILL 10  
LANDFILL GAS MONITORING

Date:

Location	Purge Start Time	Time Purged	Methane %	O2 %	LEL %	CO2 %	Pressure (H <sub>2</sub> O)	Comments
LF10-MP014 sustained *	12:59	1-min	0	11.4	0	2.7	29.1	7-27-04
LF10-MP016 sustained	13:05	1-min	0	5.4	0	4.6	29.1	
LF10-MP018 sustained	13:09	1-min	0	12.7	0	9.6	29.1	
LF10-MP020 sustained	13:13	1-min	0	6.8	0	5.2	29.1	
LF10-MP021 sustained	13:24	1-min	0	12.8	0	2.0	29.1	
LF10-MP023 sustained	13:27	1-min	0	18.4	0	1.1	29.1	
LF10-MP026 sustained	13:34	1-min	0	14.5	0	0	29.1	✓
LF10-PT030 sustained	15:23	1-min	0	19.4	0	0	29.2	7-26-04
LF10-PT031 sustained	15:27	1-min	0	19.2	0	0	29.1	7-26-04
LF10-PT035 sustained	15:18	1-min	0	19.3	0	0	29.2	7-26-04
LF10-PT036 sustained	15:20	1-min	0	19.2	0	0	29.2	7-26-04
LF10-PT060 sustained	15:35	1-min	0	19.3	0	0	29.2	7-26-04
LF10-PT065 sustained	15:31	1-min	0	19.2	0	0	29.1	7-26-04
LF10-PT078 sustained	15:40	1-min	0	19.1	0	0	29.2	7-26-04
LF10-PT085 sustained	15:44	1-min	0	19.3	0	0	29.2	7-26-04
LF10-PT088 sustained	15:50	1-min	0	19.2	0	0	29.1	7-26-04
LF10-PT090 sustained	15:54	1-min	0	19.1	0	0	29.1	7-26-04
LF10-PT091 sustained	16:00	1-min	0	19.2	0	0	29.2	7-26-04
LF10-PT093 sustained	15:11	1-min	0	19.3	0	0	29.2	7-26-04
LF10-PT095 sustained	15:15	1-min	0	19.2	0	0	29.2	7-26-04
LF10-PT100 sustained	16:05	1-min	0	19.3	0	0	29.2	7-26-04
LF10-GBTOS sustained	12:55	1-min	1.8	5.9	34%	15.8	29.1	7-27-04
LF10-GBTON sustained	13:46	1-min	5.5	15.6	2100	7.8	29.2	↓

\* Sustained readings taken 30 minutes after removing monitoring probe fittings.

LF10-MP019 13:16 1-min 0 29.0 13.2 29.1

OU1  
LANDFILL 8  
LANDFILL GAS MONITORING  
Date:

Location	Purge Start Time	Time Purged	Methane %	O2 %	LEL %	CO2 %	Pressure (H <sub>2</sub> O)	Comments
LF08-MP001	11:36	1-min	0	17.2	0	3.7	29.1	7-27-04
sustained *								
LF08-MP002	11:31	1-min	0	17.8	0	1.7	29.1	
sustained								
LF08-MP003	11:28	1-min	0	17.9	0	2.1	29.1	
sustained								
LF08-MP004	11:26	1-min	0	17.6	0	0	29.1	
sustained								
LF08-MP006	11:55	1-min	0	8.5	0	7.4	29.1	
sustained								
LF08-MP007	10:33	10:34	0	19.5	0	1.3	29.1	7-27-04
sustained								
LF08-MP008	10:39	1-min	0	19.8	0	0	29.1	
sustained							29.1	
LF08-MP009	10:42	1-min	0	5.5	0	15.7	2	
sustained								
LF08-MP010	10:47	1-min	42.3	5	2100	11.6	29.1	
sustained	10:46	1-min	40.9	6	2103	11.4	29.1	
LF08-MP011	10:50	1-min	0	4.8	0	5.7	29.1	
sustained								
LF08-MP012	10:58	1-min	0	1.4	0	7.2	29.1	
sustained								
LF08-MP013	11:01	1-min	0	14.1	0	5.8	29.1	
sustained								
LF08-PT003	15:03	1-min	0	19.3	0	0	29.2	7-26-04
sustained								
LF08-PT10A	11:14	1-min	0	19.5	0	0	29.1	7-27-04
sustained								
LF08-PT10B	11:12	1-min	0	19.5	0	0	29.1	
sustained								
LF08-PT10C	11:08	1-min	0	19.1	0	1.4	29.1	
sustained								

\* Sustained readings taken 30 minutes after removing monitoring probe fittings.

MW05C 11:23 1-min 0 19.5 0 0 29.1 7-27-04

OU1  
LANDFILL 8  
LANDFILL GAS MONITORING  
Date:

Location	Purge Start Time	Time Purged	Methane %	O2 %	LEL %	CO2 %	Pressure (H <sub>2</sub> O)	Comments
LF08-MP001 sustained	1630	1641	0	19.2	0	2.7	29.2	
LF08-MP002 sustained	1637	1638	0	19.3	0	0		
LF08-MP003 sustained	1634	1635	0	16.7	0	16.2		
LF08-MP004 sustained	1632	1631	NT	NT	NT	NT		PURGED WATER
LF08-MP005 sustained	abandoned							
LF08-MP006 sustained	1650	1651	0	17.2	0	1.7		
LF08-MP007 sustained	1654	1700	0	19.0	0	0.3		PURGED WATER
LF08-MP008 sustained	1702	1703						←
LF08-MP009 sustained	1704	1705	0	19.3	0	0		
LF08-MP010 sustained	1708	1709	43.7	2.0	7100%	30.1		
LF08-MP011 sustained	1735	1736	39.8	1.9	7100%	19.8		
LF08-MP012 sustained	1711	1712	0	8.9	0	5.1		
LF08-MP013 sustained	1714	1715	0	19.3	0	0		
LF08-MP013 sustained	1717	1718	0	19.3	0	3.7		
LF08-PT003 sustained	1654	1655	0	19.2	0	0		
LF08-PT10A sustained	1721	1722	0	19.3	0	0		
LF08-PT10B sustained	1724	1725	0	19.3	0	0		
LF08-PT10C sustained	1727	1728	0	19.3	0	0		

\* Sustained readings taken 30 minutes after removing monitoring probe fittings.

LF8-MW05C

common3/Plamondo/LmvForms/Field.xls/LF08

1642 1643 0 19.3 0 0 29.2

OU1  
LANDFILL 10  
LANDFILL GAS MONITORING

Date:

Location	Purge Start Time	Time Purged	Methane %	O2 %	LEL %	CO2 %	Pressure (H <sub>2</sub> O)	Comments
LF10-MP014 sustained *	1520	1522		12.6		2.6	29.2	
LF10-MP016 sustained	1525	1526	0	6.0	0	4.6		
LF10-MP018 sustained	1530	1531	0	13.8	0	7.1		
LF10-MP019 sustained	1537	1538	0	6.3	0	11.3		
LF10-MP020 sustained	1535	1536	0	6.7	0	5.6		
LF10-MP021 sustained	1545	1546	0	19.0	0	0		
LF10-MP023 sustained	1608	1609	0	16.9	0	1.8		
LF10-MP026 sustained	1614	1616	0	18.4	0	0		
LF10-PT030 sustained	1514	1515	0	19.3	0	0	~	
LF10-PT031 sustained	1517	1518	0	19.2	0	0.1	-	
LF10-PT035 sustained	1511	1512	0	19.1	0	0.2	-	
LF10-PT036 sustained	1508	1510	0	19.3	0	0	~	
LF10-PT060 sustained	1603	1604	0	18.6	0	0.1		
LF10-PT065 sustained	1555	1556	0	18.4		0.4		
LF10-PT078 sustained	1740	1741	0	19.3	0	0		
LF10-PT085 sustained	1744	1745	0	19.3	0	0		
LF10-PT088 sustained	1747	1748	0	19.3	0	0		
LF10-PT090 sustained	1751	1752	0	19.2	0	0		
LF10-PT091 sustained	1755	1756	0	19.3	0	0		
LF10-PT093 sustained	1451	1453	0	19.3	0	0.2		
LF10-PT095 sustained	1500	1502	0	18.5	0	1.5		
LF10-PT100 sustained	1800	1801	0	19.1	0	0		
LF10-GBTOS sustained	1010	1011	34.8	40.7	700	40.7		
LF10-GBTON sustained	1805	1806	0	18.1	0	0		

\* Sustained readings taken 30 minutes after removing monitoring probe fittings.

**B3**

**OU1 Water Level Field Forms: July and September**



Sample Team:

Landfills 8 and 10 Groundwater Level Log  
WPAFB

Date:

Logbook #:

7/28/04  
2

Well No.	Log Time	PID Reading (ppm)	LEL (%)	TOC Elevation (ft)	Static Depth to Water		Screended Interval (ft)	TWD (ft)	Remarks
					TOC (ft)	TOPG (ft)			
Landfill 8									
LF08-MW01A	1255	0	0	905.69	9.13			42.2	7/28/04
LF08-MW01C	1258	0	0	905.92	5.90			17.0	
LF08-MW02A	1317	0	0	894.07	5.09			56.0	
LF08-MW02C	1313	0	0	895.61	12.95			24.0	
LF08-MW03A	1424	0	0	888.38	16.68			30.0	
LF08-MW03C	1427	0	0	888.08	9.34			14.0	
LF08-MW04A	1300	0	0	913.45	30.20			68.0	
LF08-MW04B	1303	0	0	912.76	21.81			39.0	
LF08-MW04C	1306	0	0	914.02	30.20	19.99		28.0	
LF08-MW05A	1530	0	0	949.38	29.88			88.0	
LF08-MW05B	1532	0	0	949.17	19.29			53.8	
LF08-MW05C	1536	0	0	949.30	16.25			30.0	
LF08-MW06A	1325	0	0	891.30	27.28		53.5-73.8	80.0	
LF08-MW06B	1327	0	0	890.63	11.23		32.75-42.75	45.0	
LF08-MW06C	1329	0	0	891.72	DRY		7.0-12.0	14.0	
LF08-MW07A	1417	0	0	952.62	20.99			64.0	
LF08-MW07B	1418	0	0	952.56	26.90			40.0	
LF08-MW07C	1420	0	0	952.79	21.72			31.0	
LF08-MW08A	1340	0	0	878.70	3.64			36.0	
LF08-MW08B	1342	0	0	878.63	3.70			24.0	
LF08-MW08C	1344	0	0	877.72	8.88			14.0	
LF08-MW09A	1349	0	0	855.38	13.73		25.2-30.2	32.5	
LF08-MW09B	1347	0	0	856.01	12.97		13.67-18.67	20.5	

Sample Team: \_\_\_\_\_

# Landfills 8 and 10 Groundwater Level Log

WPAFB

 Date: \_\_\_\_\_  
 Logbook #: \_\_\_\_\_

Well No.	Log Time	PID Reading (ppm)	LEL (%)	TOC Elevation (ft)	Static Depth to Water		Screended Interval (ft)	TWD (ft)	Remarks
					TOC (ft)	TOPC (ft)			
LF08-MW10A	1430	0	0	911.86	23.97		53.7-63.8	66.0	
LF08-MW10B	1432	0	0	912.27	21.29		29.8-34.8	39.0	
LF08-MW10C	1434	0	0	911.83	23.97 <sup>(40)</sup> DRY		17.5-22.5	25.0	
LF08-MW11A	1409	0	0	934.37	11.25			57.0	
LF08-MW11B	1410	0	0	934.95	10.26			44.3	
LF08-MW11C	1412	0	0	935.18	9.31			23.9	
LF08-MW12B	1405	0	0	936.03	10.91			35.8	
LF08-MW12C	1407	0	0	936.16	11.00			13.5	
LF08-MW13A	1358	0	0	934.01	12.89			88.5	
LF08-MW13B	1400	0	0	933.22	9.80			30.9	
LF08-MW13C	1402	0	0	933.48	10.30			19.7	
LF08-MW14B	1414	0	0	942.45	11.80			38.0	
LF08-MW14C	1415	0	0	941.75	10.68			21.2	
LF08-MW101	1550	0	0	925.72	30.69			68.0	
LF08-MW102	1555	0	0	933.69	30.11			73.0	
LF08-MW103	1600	0	0	937.16	35.50			68.0	
02-DM-81S-M	1543	0	0	849.75	23.18			36.3	
02-DM-81D-M	1540	0	0	949.67	28.14			94.4	
02-DM-82S-M	1337	0	0	893.37	10.79			893.4	
02-DM-83S-M	1511	0	0	913.32	10.68 <sup>(40)</sup> 16.31			17.0	*
02-DM-83D-M	COULD NOT OBTAIN READING, LARGE HORNETS NEST								
02-DM-84-M	1310	0	0	914.49	19.85			57.8	
02-DM-85-M	1315	0	0	894.81	4.54			52.5	
02-003-M	1323	0	0	850.24	3.08				

**Landfills 8 and 10 Groundwater Level Log**  
**WPAFB**

Sample Team: \_\_\_\_\_

Date: \_\_\_\_\_  
Logbook #: \_\_\_\_\_

Well No.	Log Time	PID Reading (ppm)	LEL (%)	TOC Elevation (ft)	Static Depth to Water		Screended Interval (ft)	TWD (ft)	Remarks
					TOC (ft)	TOPC (ft)			

<b>LF8 Extraction Wells</b>									
EW-0801				937.59				55.5	
EW-0803				936.73			5.0-55.5	55.5	
EW-0805				935.64				55.5	
EW-0807				934.69			5.0-51.5	51.5	
EW-0810				930.69				55.0	
EW-0812				926.88			5.0-50.0	50.0	
EW-0816				932.99			5.0-55.0	55.0	
<b>Landfill 10</b>									
LF10-MW01A	0836	0	0	918.50	74.95 13.61			106.0	7/29/04
LF10-MW01B	0838	0	0	918.52	22.84			40.0	
LF10-MW01C	0839	0	0	918.57	13.61			14.0	
LF10-MW03A	1120	0	0	907.49	89.68			NA	
LF10-MW04B	0939	0	0	898.86	98.48		113.65-123.65	126.0	
LF10-MW05B	0848	0	0	858.44	19.22		27.00-34.20	37.0	
LF10-MW05C	0850	0	0	859.06	10.24		3.42-8.42	11.0	
LF10-MW06A	1117	0	0	894.62	71.95		74.80-84.80	87.1	
LF10-MW06A DUP	1113	0	0	897.78	60.86			66.0	
LF10-MW06B	1110	0	0	894.09	34.00		37.15-42.50	44.0	
LF10-MW07A	0950	0	0	897.54	50.65			82.0	
LF10-MW07B	0953	0	0	897.01	27.51			36.0	
LF10-MW07C	0955	0	0	897.72	11.69			18.0	

Sample Team: \_\_\_\_\_

**Landfills 8 and 10 Groundwater Level Log**  
**WPAFB**

 Date: \_\_\_\_\_  
 Logbook #: \_\_\_\_\_

Well No.	Log Time	PID Reading (ppm)	LEL (%)	TOC Elevation (ft)	Static Depth to Water		Screended Interval (ft)	TWD (ft)	Remarks
					TOC (ft)	TOPC (ft)			
LF10-MW08A-2	0932	0	0	863.35	106.79		79.9-89.9	92.2	
LF10-MW08B	0934	0	0	865.09	11.29		11.5-16.5	18.66	
LF10-MW09A	0909	0	0	877.98	51.05		77-87	88.0	
LF10-MW09B	0911	0	0	878.21	50.100		46.4-57	60.2	
LF10-MW09C	0913	0	0	878.17	34.35		31.05-41.10	44.17	
LF10-MW10B	0928	0	0	844.40	DRY			26.0	
LF10-MW10C	0930	0	0	844.19	47.85			68.0	
LF10-MW11A	0915	0	0	854.20	29.96		61.7-71.7	74.0	
LF10-MW11B	0917	0	0	854.52	28.15		30.2-40.2	43.0	
LF10-MW13A	0919	0	0	845.53	21.40			52.0	
LF10-MW13C	0921	0	0	845.64	20.75			40.0	
LF10-MW14A	0945	0	0	948.58	73.31			101.0	
LF10-MW102	1105	0	0	891.25	DRY			65.0	
LF10-MW103	1007	0	0	909.65	32.13			42.0	
LF10-MW104	1015	0	0	909.40	73.10			82.0	SIGHT OF TIP OF INDICATOR, ALMOST MVI
LF10-MW105	1045	0	0	873.02	45.34			65.0	
01-004-M	1002	0	0	883.23	20.30			63.0	
01-005-M	1100	0	0	840.01	9.10			46.0	
01-DM101S-M	1130	0	0	914.95	36.80			51.8	
01-DM101D-M	1125	0	0	914.54	86.10			85.0	
01-DM102S-M	0923	0	0	844.88	25.90			98.0	
01-DM102D-M	0925	0	0	844.27	47.94			98.0	

Sample Team:

M. Chulka  
P. PatersonLandfills 8 and 10 Groundwater Level Log  
WPAFBDate: 7/28/04  
Logbook #: 3

Well No.	Log Time	PID Reading (ppm)	LEL (%)	TOC Elevation (ft)	Static Depth to Water		Screended Interval (ft)	TWD (ft)	Remarks
					TOC (ft)	TOPC (ft)			
LF10 Extraction Wells									
EW-1001	1123	0	36%	908.28	50.07		3.0-53.0	53.0	516025 mm slide
EW-1002	1115	0	10%	921.78	44.20			53.0	011392
EW-1003	1103	0	58%	915.81	18.23		6.0-66.0	66.0	156230
EW-1004	1109	0	19%	923.08	57.55			63.0	010707
EW-1006	1134	0	81%	916.36	30.02			38.0	015051
EW-1008	1127	0	52%	911.05	39.10		6.0-36.0	36.0	000934 no cap
EW-1011	1315	0	over 100%	909.31	56.98			66.0	005608
EW-1012	1323	0	2%	891.43	29.70		4.0-31.0	31.0	147867
EW-1013	1330	0	2%	886.21	30.79			30.0	014474
EW-1014	13:31	0	2%	884.90	32.91			30.0	000064
EW-1015	1341	0	0%	907.94	33.87		6.0-62.0	62.0	998003
EW-1016	1346	0	6%	907.88	BTP-0 31.96			50.5	027751
EW-1017	1410	0	2%	901.79	46.33			48.0	0001566 no cap
EW-1018	1424	0	over 100%	901.77	28.40			37.0	009048 over 100% valve missing
EW-1019	1419	0	6%	884.74	49.61		2.0-52.0	52.0	000172
EW-1020	1414	0	6%	868.18	42.85		4.0-35.0	35.0	072003
EW-1022	1352	0	2%	871.32	39.72			65.0	245981
EW-1024	1406	0	over 100%	891.25	40.03		5.0-41.0	41.0	321629
EW-1025	1402	0	40%	877.61	37.29		3.0-43.0	43.0	048337
EW-1026	1356	0	2%	861.26	83.92			85.0	992786

TOC = Top of Casing

TOPC = Top of Protective Casing

TWD = Total Well Depth

Sample Team

Landfills 8 and 10 Groundwater Level Log  
WPAFBDate: 7/28/04  
Logbook #: 3

Well No.	Log Time	PID Reading (ppm)	LEL (%)	TOC Elevation (ft)	Static Depth to Water		Screended Interval (ft)	TWD (ft)	Remarks
					TOC (ft)	TOPC (ft)			

LF8 Extraction Wells									
EW-0801	1004	0.0	34%	937.59	50-47.78			55.5	529727 no cap
EW-0803	1013	0.0	12%	936.73	50.12		5.0-55.5	55.5	274805 iron oxide heavy
EW-0805	1023	0.0	9%	938.54	49.90			55.5	179241
EW-0807	1030	0.0	9%	934.69	4.52		5.0-51.5	51.5	209892
EW-0810	1034	0.0	16%	930.69	48.78			55.0	863412 some iron oxide
EW-0812	1042	0.0	0%	926.88	23.85		5.0-50.0	50.0	550311
EW-0816	1047	0.0	over 100%	932.99	26.69		5.0-55.0	55.0	560896 no cap
Landfill 10									
LF10-MW01A				918.50				106.0	
LF10-MW01B				918.52				40.0	
LF10-MW01C				918.57				14.0	
LF10-MW03A				907.49				NA	
LF10-MW04B				898.86			113.65-123.65	126.0	
LF10-MW05B				858.44			27.00-34.20	37.0	
LF10-MW05C				859.06			3.42-8.42	11.0	
LF10-MW06A				894.62			74.80-84.80	87.1	
LF10-MW06A DUP				897.78				66.0	
LF10-MW06B				894.09			37.15-42.50	44.0	
LF10-MW07A				897.54				82.0	
LF10-MW07B				897.01				36.0	
LF10-MW07C				897.72				18.0	

Sample Team:  
McNallen  
Switt

Landfills 8 and 10 Groundwater Level Log  
WPAFB

Date: 9/29/04  
Logbook #: 3

Well No.	Log Time	PID Reading (ppm)	LEL (%)	TOC Elevation (ft)	Static Depth to Water		Screended Interval (ft)	TWD (ft)	Remarks
					TOC (ft)	TOPC (ft)			
Landfill 8									
LF08-MW01A	1110	0	0	905.69	6.31			42.2	
LF08-MW01C	1112	0	0	905.92	9.41			17.0	
LF08-MW02A	0959	0	0	894.07	4.90			56.0	
LF08-MW02C	0957	0	0	895.61	13.35			24.0	
LF08-MW03A	1252	0	0	888.38	16.20			30.0	
LF08-MW03C	1251	0	0	888.08	7.99			14.0	
LF08-MW04A	1009	0	0	913.45	31.40			68.0	
LF08-MW04B	1010	0	0	912.76	24.51			39.0	
LF08-MW04C	1007	0	0	914.02	22.50			28.0	
LF08-MW05A	1357	0	0	949.38	31.04			88.0	
LF08-MW05B	<del>1354</del> 1032	<del>0</del> 0	<del>0</del> 0	<del>949.17</del>	<del>19.42</del> ← 21.00 TOC			53.8	
LF08-MW05C	1355	0	0	949.30	16.38			30.0	
LF08-MW06A	1019	0	0	891.30	27.97		53.5-73.8	80.0	
LF08-MW06B	1018	0	0	890.63	12.49		32.75-42.75	45.0	
LF08-MW06C	1016	0	0	891.72	<del>11.60</del> 11.60		7.0-12.0	14.0	
LF08-MW07A	1342	0	0	952.62	22.82			64.0	
LF08-MW07B	1341	0	0	952.56	23.59			40.0	
LF08-MW07C	1340	0	0	952.79	23.56			31.0	
LF08-MW08A	1026	0	0	878.70	4.82			36.0	
LF08-MW08B	1028	0	0	878.63	4.879 <sup>mc</sup>			24.0	fall
LF08-MW08C	1025	0	0	877.72	9.57			14.0	
LF08-MW09A	1114	0	0	855.38	13.99		25.2-30.2	32.5	
LF08-MW09B	1118	0	0	856.01	13.21		13.67-18.67	20.5	



Sample Team:

McNulty  
S. WittLandfills 8 and 10 Groundwater Level Log  
WPAFBDate: 9/29/04  
Logbook #: 3

Well No.	Log Time	PID Reading (ppm)	LEL (%)	TOC Elevation (ft)	Static Depth to Water		Screended Interval (ft)	TWD (ft)	Remarks
					TOC (ft)	TOPC (ft)			
LF08-MW10A	1304	0	0	911.86	25.11		53.7-63.8	66.0	
LF08-MW10B	1306	0	0	912.27	22.55		29.8-34.8	39.0	
LF08-MW10C	1310	0	0	911.83	87.19.18		17.5-22.5	25.0	
LF08-MW11A	1246	0	0	934.37	13.97			57.0	
LF08-MW11B	1245	0	0	934.95	11.46			44.3	
LF08-MW11C	1244	0	0	935.18	11.98			23.9	iron oxide
LF08-MW12B	1240	0	0	936.03	12.41			35.8	
LF08-MW12C	1239	0	0	936.16	12.56			13.5	
LF08-MW13A	1337	0	0	934.01	12.41			88.5	
LF08-MW13B	1336	0	0	933.22	11.74			30.9	spider & babies
LF08-MW13C	1334	0	0	933.48	10.85			19.7	
LF08-MW14B	1231	0	0	942.45	13.00			38.0	
LF08-MW14C	1229	0	0	941.75	11.76			21.2	
LF08-MW101	1419	0	0	925.72	31.90			68.0	
LF08-MW102	1413	0	0	933.69	36.97			73.0	
LF08-MW103	1409	0	0	937.16	36.04			68.0	
02-DM-81S-M	1400	0	0	849.75	27.01			36.3	
02-DM-81D-M	1402	0	0	949.67	29.65			94.4	
02-DM-82S-M	1021	0	0	893.37	12.07			893.4	
02-DM-83S-M	1316	0	0	913.32	18.05			17.0	
02-DM-83D-M	1317	0	0	912.56	15.12			72.7	wasp nest
02-DM-84-M	1004	0	0	914.49	20.45			57.8	
02-DM-85-M	0959	0	0	894.81	5.12			52.5	
02-003-M	1014	0	0	850.24	4.25				

**Landfills 8 and 10 Groundwater Level Log**  
**WPAFB**

Sample Team:  
McChiller  
S. Witt

Date: 9/29/04  
Logbook #: 3

Well No.	Log Time	PID Reading (ppm)	LEL (%)	TOC Elevation (ft)	Static Depth to Water		Screended Interval (ft)	TWD (ft)	Remarks
					TOC (ft)	TOPC (ft)			

**QED**

<b>LF8 Extraction Wells</b>									
EW-0801				937.59				55.5	
EW-0803				936.73			5.0-55.5	55.5	
EW-0805				938.54				55.5	
EW-0807				934.69			5.0-51.5	51.5	
EW-0810				930.69				55.0	
EW-0812				926.88			5.0-50.0	50.0	
EW-0816				932.99			5.0-55.0	55.0	
<b>Landfill 10</b>									
LF10-MW01A	1056	0	0	918.50	74.93			106.0	
LF10-MW01B	1058	0	0	918.52	24.47			40.0	
LF10-MW01C	1059	0	0	918.57	14.42			<del>14.0</del> 15.25	
LF10-MW03A				907.49				NA	
LF10-MW04B				898.86			113.65-123.65	126.0	
LF10-MW05B	1032	0	0	858.44	19.42		27.00-34.20	37.0	
LF10-MW05C	1033	0	0	859.06	BTPQ 10.38		3.42-8.42	11.0	
LF10-MW06A				894.62			74.80-84.80	87.1	
LF10-MW06A DUP				897.78				66.0	
LF10-MW06B				894.09			37.15-42.50	44.0	
LF10-MW07A				897.54				82.0	
LF10-MW07B				897.01				36.0	
LF10-MW07C				897.72				18.0	

Sample Team:

M. Miller  
S. WittLandfills 8 and 10 Groundwater Level Log  
WPAFBDate: 9/29/04  
Logbook #: 3

Well No.	Log Time	PID Reading (ppm)	LEL (%)	TOC Elevation (ft)	Static Depth to Water		Screended Interval (ft)	TWD (ft)	Remarks
					TOC (ft)	TOPC (ft)			
LF10-MW08A-2				863.35			79.9-89.9	92.2	
LF10-MW08B				865.09			11.5-16.5	18.66	
LF10-MW09A	1434	0	0	877.98	51.61		77-87	88.0	
LF10-MW09B	1433	0	0	878.21	50.99		46.4-57	60.2	
LF10-MW09C	1436	0	0	878.17	35.18		31.05-41.10	44.17	
LF10-MW10B	1501	0	0	844.40	DRY @ 26.166			26.0	
LF10-MW10C	1457	0	0	844.19	48.716			68.0	
LF10-MW11A	1444	0	0	854.20	30.39		61.7-71.7	74.0	
LF10-MW11B	1443	0	0	854.52	28.44		30.2-40.2	43.0	
LF10-MW13A	1448	0	0	845.53	21.86			52.0	
LF10-MW13C	1447	0	0	845.64	21.16			40.0	no lock
LF10-MW14A				948.58				101.0	
LF10-MW102				891.25				65.0	
LF10-MW103				909.65				42.0	
LF10-MW104	1044	0	0	909.40	69.45			71.85 82.0	water in vault
LF10-MW105				873.02				65.0	
01-004-M				883.23				63.0	
01-005-M				840.01				46.0	
01-DM101S-M	1453	0	0	914.95	25.41			51.8	
01-DM101D-M	1451	0	0	914.54	48.88			85.0	
01-DM102S-M				844.88				98.0	
01-DM102D-M				844.27				98.0	

Sample Team:

KH  
JPLandfills 8 and 10 Groundwater Level Log  
WPAFBDate: 9/29/04  
Logbook #: 1

Well No.	Log Time	PID Reading (ppm)	LEL (%)	TOC Elevation (ft)	Static Depth to Water		Screended Interval (ft)	TWD (ft)	Remarks
					TOC (ft)	TOPC (ft)			

LF8 Extraction Wells									
EW-0801	1021	0	0	937.59	49.56	—		55.5	(COUNTER READINGS) 548394
EW-0803	1018	0	0	936.73	49.58	—	5.0-55.5	55.5	286056
EW-0805	1015	0	0	938.54	50.33	—		55.5	183153
EW-0807	1011	0	0	934.69	41.63	—	5.0-51.5	51.5	218062
EW-0810	1008	0	0	930.69	48.78	—		55.0	922039
EW-0812	1001	0	0	926.88	23.85	—	5.0-50.0	50.0	698519
EW-0816	0959	0	0	932.99	54.15	—	5.0-55.0	55.0	639500
Landfill 10									
LF10-MW01A				918.50				106.0	
LF10-MW01B				918.52				40.0	
LF10-MW01C				918.57				14.0	
LF10-MW03A	1340	0	0	907.49	89.79	—		NA	
LF10-MW04B	1338	0	0	898.86	98.99	—	113.65-123.65	126.0	
LF10-MW05B				858.44			27.00-34.20	37.0	
LF10-MW05C				859.06			3.42-8.42	11.0	
LF10-MW06A	1348	0	0	894.62	72.02	—	74.80-84.80	87.1	
LF10-MW06A DUP	1349	0	0	897.78	62.84	—		66.0	
LF10-MW06B	1350	0	0	894.09	34.45	—	37.15-42.50	44.0	
LF10-MW07A	1312	0	0	897.54	51.07	—		82.0	
LF10-MW07B	1311	0	0	897.01	28.81	—		36.0	
LF10-MW07C	1310	0	0	897.72	14.26	—		18.0	

NO  
CAP >NO  
CAP >

WATER

Sample Team:

KH  
JPLandfills 8 and 10 Groundwater Level Log  
WPAFBDate: 9/29/04  
Logbook #: 1

Well No.	Log Time	PID Reading (ppm)	LEL (%)	TOC Elevation (ft)	Static Depth to Water		Screended Interval (ft)	TWD (ft)	Remarks
					TOC (ft)	TOPC (ft)			
LF10-MW08A-2	1358	0	0	863.35	67.55		79.9-89.9	92.2	NEEDS FITTINGS FOR DISCHARGE TUBE
LF10-MW08B	1400	PUMP	FITTINGS HAVE FALLEN 4' INTO WELL	866.00			11.6-16.6	18.66	COULD NOT READ AT THIS TIME
LF10-MW09A				877.98			77-87	88.0	
LF10-MW09B				878.21			46.4-57	60.2	
LF10-MW09C				878.17			31.05-41.10	44.17	
LF10-MW10B				844.40				26.0	
LF10-MW10C				844.19				68.0	
LF10-MW11A				854.20			61.7-71.7	74.0	
LF10-MW11B				854.52			30.2-40.2	43.0	
LF10-MW13A				845.53				52.0	
LF10-MW13C				845.64				40.0	
LF10-MW14A	1300	0	0	948.58	73.47	—		101.0	
LF10-MW102	1347	0	0	891.25	DRY	—		65.0	
LF10-MW103	1321	0	0	909.65	32.10	—		42.0	
LF10-MW104	1325	0	0	909.40	69.37	—		82.0	
LF10-MW105	1128	0	0	873.02	46.06	—		65.0	
01-004-M	1316	0	0	883.23	37.18	—		63.0	
01-005-M	1533	0	0	840.01	4.85	—		46.0	
01-DM101S-M	1327	0	0	914.95	37.13	—		51.8	
01-DM101D-M	1329	0	0	914.54	DRY	—		85.0	
01-DM102S-M				844.88				98.0	
01-DM102D-M	1			844.27				98.0	

Sample Team:

KH  
JPLandfills 8 and 10 Groundwater Level Log  
WPAFBDate: 9/29/04  
Logbook #: 1

Well No.	Log Time	PID Reading (ppm)	LEL (%)	TOC Elevation (ft)	Static Depth to Water		Screended Interval (ft)	TWD (ft)	Remarks
					TOC (ft)	TOPC (ft)			
LF10 Extraction Wells									(COUNTER READINGS)
EW-1001	1150	0	0	908.28	36.40	—	3.0-53.0	53.0	561103
EW-1002	1152	0	0	921.78	52.08	—		53.0	000399
EW-1003	1159	0	0	915.81	19.80	—	6.0-66.0	66.0	156746
EW-1004	1142	0	0	923.08	57.45	—		63.0	010828
EW-1006	1145	0	0	916.36	30.74	—		38.0	015190
EW-1008	1147	0	0	911.05	DRY	—	6.0-36.0	36.0	000935
EW-1011	1117	0	0	909.31	58.47	—		66.0	006120
EW-1012	1114	0	0	891.43	28.92	—	4.0-31.0	31.0	147867
EW-1013	1112	0	0	886.21	31.90	—		30.0	015326
EW-1014	1110	0	0	884.90	33.84	—		30.0	000066
EW-1015	1040	0	2.0	907.94	48.49	—	6.0-62.0	62.0	0006393
EW-1016	1042	0	0	907.88	51.06	—		50.5	072121
EW-1017	1040	0	0	901.79	47.42	—		48.0	001506
EW-1018	1107	0	0	901.77	28.77	—		37.0	009048
EW-1019	1104	0	0	884.74	44.27	—	2.0-52.0	52.0	046755
EW-1020	1100	0	0	868.18	33.68	—	4.0-35.0	35.0	027754
EW-1022	1030	0	0	871.32	61.08	—		65.0	257741
EW-1024	1048	0	0	891.25	39.29	—	5.0-41.0	41.0	337735
EW-1025	1050	0	0	877.61	37.62	—	3.0-43.0	43.0	054201
EW-1026	1053	0	0	861.26	84.05	—		85.0	038448

IRON  
OXIDENO  
CAP >NO  
CAP >

WATER

TOC = Top of Casing  
 TOPC = Top of Protective Casing  
 TWD = Total Well Depth

## **Appendix C**

### **OU1 Analytical Data and Chain of Custody Records**

**C1** OU1 Groundwater Analytical Data (Detects Only) – July  
and October

**C2** OU1 Chain of Custody Records – July and October

**C3** City of Fairborn Quarterly Effluent Monitoring Transmittal  
Letters

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms*  
for the Chain of Custody Records and Transmittal Letters**



**C2**

**OU1 Chain of Custody Records: July and October**

SEVERN  
TRENT

# STL

**Severn Trent Laboratories, Inc.**

36

STL-4124 (0901)

[illegible]

### Possible Hazard Identification

☐ Non-Hazard    ☐ Flammable    ☐ Skin Irritant    ☐ Poison B    ☒ Unknown

### Sample Disposal

 [Return To Client](#)

☒ Disposal By Lab

 [Archive For](#)

Months

*(A fee may be assessed if samples are retained longer than 1 month)*

### Turn Around Time Required

☐ 24 Hours    ☐ 48 Hours    ☐ 7 Days    ☐ 14 Days    ☐ 21 Days

☒ Other per QAPP

**QC Requirements (Specify)**

### 1. Relinquished By

W. Anne Chubb

Date 9/28/04

Time  
11:20

1. Received By

15

**Date**

7/26/04

Time

Time

2. Relinquished BW

*[Handwritten signature]*

Date 7/22/11

Time 12

2. Reviewed By

H. Berry Burns

Date \_\_\_\_\_

7/29/04

Time

7:20  
Time

3. Relinquished By

\_\_\_\_\_

Date \_\_\_\_\_

[illegible]

3. Received By

### Comments

**DISTRIBUTION:** WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

ST. North Canton

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KQ041021

Page 1 of 1

Project Number: 829564

Samples Shipment Date: 21 OCT 2004

Bill To: Greg Plamondon

Project Name: WPAFB

Lab Destination: Severn Trent Lab

5050 Section Ave

Norwood

OH 45212

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon

Turnaround Time: *normal*

Project Contact: Denise Pohl

5050 Section Ave

Norwood

OH 45212

Carrier/Waybill No.: Relinquished to STL/ Cincinnati

## Special Instructions:

### Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

### Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By  
(Signature/Affiliation)

Date: 10/21/04  
Time: 1400

1. Received By  
(Signature/Affiliation)

Date: 10/21/04  
Time: 1400

2. Relinquished By  
(Signature/Affiliation)

Date: 10/21/04  
Time: 1500

2. Received By  
(Signature/Affiliation)

Date: 10/22/04  
Time: 9:25

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	QC Lvl	Condition On Receipt
KQ30033	LF8/10-EFF-EW-KQ30033-REG	21 OCT 2004	08:50	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N	
KQ30033	LF8/10-EFF-EW-KQ30033-REG	21 OCT 2004	08:50	1 L HDPE	1	HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KQ30033	LF8/10-EFF-EW-KQ30033-REG	21 OCT 2004	08:50	500 ML HDPE	1	None Required	pH by EPA 150.1, Tot Susp Solid by EPA 160.2	N	
KQ30033	LF8/10-EFF-EW-KQ30033-REG	21 OCT 2004	08:50	250 ML HDPE	1	H2SO4<pH 2	Chemical Oxygen Demand by EPA 410.1	N	
KQ30033	LF8/10-EFF-EW-KQ30033-REG	21 OCT 2004	08:50	1 L Amb. Glass	1	H2SO4<pH 2	Oil and Grease by EPA 413.1	N	

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041004

Page 1 of 2

Project Number: 829564

Samples Shipment Date: 05 OCT 2004

Bill To: Greg Plamondon

Project Name: WPAFB

Lab Destination: Severn Trent Lab

5050 Section Ave

Norwood

OH 45212

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon

Turnaround Time: *normal*

Project Contact: Denise Pohl

5050 Section Ave

Norwood

OH 45212

Carrier/Waybill No.: Relinquished to STL/ Cinc

## Special Instructions:

## Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

1. Relinquished By  
(Signature/Affiliation) *[Signature]*

Date:

Time:

2. Relinquished By  
(Signature/Affiliation) *[Signature]*

Date: 10/3/04

Time: 1:00

3. Relinquished By  
(Signature/Affiliation)

Date:

Time:

## Sample Disposal:

Return to Client ☐

Disposal by Lab ☒

Archive

(mos.)

1. Received By  
(Signature/Affiliation) *[Signature]*

Date: 10/3/04

Time: 1:00

2. Received By  
(Signature/Affiliation) *[Signature]*

Date: 10/6/04

Time: 7:55

3. Received By  
(Signature/Affiliation)

Date:

Time:

## Comments:

*Diox = sep lot*

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File	CID	QC Lvl	Condition On Receipt
KH30155	LF08-MW101-GW-KH30155-REG	04 OCT 2004	13:33	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30155	LF08-MW101-GW-KH30155-REG	04 OCT 2004	13:33	1 L HDPE	1	HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30155	LF08-MW101-GW-KH30155-REG	04 OCT 2004	13:33	1 L Amb. Glass	2	None except cool to 4 C	SVOC by EPA 8270C	N			
KH30155	LF08-MW101-GW-KH30155-REG	04 OCT 2004	13:33	1 L Amb. Glass	2	None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30155	LF08-MW101-GW-KH30155-REG	04 OCT 2004	13:33	1 L Amb. Glass	2	None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30155	LF08-MW101-GW-KH30155-REG	04 OCT 2004	13:33	250 ML HDPE	1	H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30155	LF08-MW101-GW-KH30155-REG	04 OCT 2004	13:33	250 ML HDPE	1	NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30155	LF10-MW058-GW-KH30155-FD	04 OCT 2004	13:13	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N			

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041004

Page 2 of 2

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	QC	Condition On Receipt
KH30165	LF10-MW05B-GW-KH30165-FD	04 OCT 2004	13:13	1 L HDPE	1 HNO <sub>3</sub> <ph 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30165	LF10-MW05B-GW-KH30165-FD	04 OCT 2004	13:13	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30165	LF10-MW05B-GW-KH30165-FD	04 OCT 2004	13:13	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30165	LF10-MW05B-GW-KH30165-FD	04 OCT 2004	13:13	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30165	LF10-MW05B-GW-KH30165-FD	04 OCT 2004	13:13	250 ML HDPE	1 H <sub>2</sub> SO <sub>4</sub> <ph 2	Ammonia by EPA 350.3	N	
KH30165	LF10-MW05B-GW-KH30165-FD	04 OCT 2004	13:13	250 ML HDPE	1 NaOH>ph 12	Total Cyanide by EPA 335.2	N	
KH30165	LF10-MW05B-GW-KH30165-FD	04 OCT 2004	13:13	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30166	LF10-MW05B-GW-KH30166-REG	04 OCT 2004	13:13	40 ML VOA Vial	3 HCl<ph 2	VOC by EPA 8260B with MTBE	N	
KH30166	LF10-MW05B-GW-KH30166-REG	04 OCT 2004	13:13	1 L HDPE	1 HNO <sub>3</sub> <ph 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30166	LF10-MW05B-GW-KH30166-REG	04 OCT 2004	13:13	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30166	LF10-MW05B-GW-KH30166-REG	04 OCT 2004	13:13	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30166	LF10-MW05B-GW-KH30166-REG	04 OCT 2004	13:13	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30166	LF10-MW05B-GW-KH30166-REG	04 OCT 2004	13:13	250 ML HDPE	1 H <sub>2</sub> SO <sub>4</sub> <ph 2	Ammonia by EPA 350.3	N	
KH30166	LF10-MW05B-GW-KH30166-REG	04 OCT 2004	13:13	250 ML HDPE	1 NaOH>ph 12	Total Cyanide by EPA 335.2	N	
KH30166	LF10-MW05B-GW-KH30166-REG	04 OCT 2004	13:13	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30190	FIELDQC-WA-KH30190-TB	04 OCT 2004	10:50	40 ML VOA Vial	2 HCl<ph 2	VOC by EPA 8260B with MTBE	N	

*John H. Fisher*  
10/6/04 7:55

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041005

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Project Number: 829564

Samples Shipment Date: 06 OCT 2005

Project Name: WPAFB

Lab Destination: Severn Trent Lab

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Turnaround Time: *normal*

Project Contact: Denise Pohl

Bill To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212

Report To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212

Carrier/Waybill No.: Relinquished to STL/ Cincl

## Special Instructions:

## Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

## Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By  
(Signature/Affiliation) *Marie Chiller*

Date: *10/06/04*  
Time:

1. Received By  
(Signature/Affiliation) *Amy Freese*

Date: *10/6/04*  
Time: *1300*

2. Relinquished By  
(Signature/Affiliation) *Denise Pohl*

Date: *10/6/04*  
Time: *1300*

2. Received By  
(Signature/Affiliation) *John Keith*

Date: *10/7/04*  
Time: *8:00*

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

## Comments:

*Extra acid was added to the VOC, metals, and ammonia samples of sample number KH30138 due to the high pH (13.11) of the groundwater.*

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File CID	QC Lvl	Condition On Receipt
KH30138	02-DM-81D-M-GW-KH30138-REG	05 OCT 2004	16:09	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		
KH30138	02-DM-81D-M-GW-KH30138-REG	05 OCT 2004	16:09	1 L HDPE	1	HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N		
KH30138	02-DM-81D-M-GW-KH30138-REG	05 OCT 2004	16:09	1 L Amb. Glass	2	None except cool to 4 C	SVOC by EPA 8270C	N		
KH30138	02-DM-81D-M-GW-KH30138-REG	05 OCT 2004	16:09	1 L Amb. Glass	2	None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N		
KH30138	02-DM-81D-M-GW-KH30138-REG	05 OCT 2004	16:09	1 L Amb. Glass	2	None except cool to 4 C	Dioxins/Furans by EPA 8290	N		
KH30138	02-DM-81D-M-GW-KH30138-REG	05 OCT 2004	16:09	250 ML HDPE	1	H2SO4<pH 2	Ammonia by EPA 350.3	N		
KH30138	02-DM-81D-M-GW-KH30138-REG	05 OCT 2004	16:09	250 ML HDPE	1	NaOH>pH 12	Total Cyanide by EPA 335.2	N		
KH30138	02-DM-81S-M-GW-KH30138-REG	05 OCT 2004	14:00	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	QC	Condition On Receipt
							File CID Lvl	
KH30139	02-DM-81S-M-GW-KH30139-REG	05 OCT 2004	14:00	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30139	02-DM-81S-M-GW-KH30139-REG	05 OCT 2004	14:00	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30139	02-DM-81S-M-GW-KH30139-REG	05 OCT 2004	14:00	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30139	02-DM-81S-M-GW-KH30139-REG	05 OCT 2004	14:00	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30139	02-DM-81S-M-GW-KH30139-REG	05 OCT 2004	14:00	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30139	02-DM-81S-M-GW-KH30139-REG	05 OCT 2004	14:00	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30140	02-DM-82-M-GW-KH30140-REG	05 OCT 2004	10:17	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30140	02-DM-82-M-GW-KH30140-REG	05 OCT 2004	10:17	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30140	02-DM-82-M-GW-KH30140-REG	05 OCT 2004	10:17	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30140	02-DM-82-M-GW-KH30140-REG	05 OCT 2004	10:17	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30140	02-DM-82-M-GW-KH30140-REG	05 OCT 2004	10:17	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30140	02-DM-82-M-GW-KH30140-REG	05 OCT 2004	10:17	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30140	02-DM-82-M-GW-KH30140-REG	05 OCT 2004	10:17	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30148	LF08-MW02A-GW-KH30148-REG	05 OCT 2004	14:10	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30148	LF08-MW02A-GW-KH30148-REG	05 OCT 2004	14:10	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30148	LF08-MW02A-GW-KH30148-REG	05 OCT 2004	14:10	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30148	LF08-MW02A-GW-KH30148-REG	05 OCT 2004	14:10	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30148	LF08-MW02A-GW-KH30148-REG	05 OCT 2004	14:10	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30148	LF08-MW02A-GW-KH30148-REG	05 OCT 2004	14:10	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30148	LF08-MW02A-GW-KH30148-REG	05 OCT 2004	14:10	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30148	LF08-MW05B-GW-KH30148-FD	05 OCT 2004	09:52	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30148	LF08-MW05B-GW-KH30148-FD	05 OCT 2004	09:52	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30148	LF08-MW05B-GW-KH30148-FD	05 OCT 2004	09:52	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30148	LF08-MW05B-GW-KH30148-FD	05 OCT 2004	09:52	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30148	LF08-MW05B-GW-KH30148-FD	05 OCT 2004	09:52	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30148	LF08-MW05B-GW-KH30148-FD	05 OCT 2004	09:52	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30148	LF08-MW05B-GW-KH30148-FD	05 OCT 2004	09:52	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30149	LF08-MW05B-GW-KH30149-REG	05 OCT 2004	09:52	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30149	LF08-MW05B-GW-KH30149-REG	05 OCT 2004	09:52	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30149	LF08-MW05B-GW-KH30149-REG	05 OCT 2004	09:52	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30149	LF08-MW05B-GW-KH30149-REG	05 OCT 2004	09:52	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30149	LF08-MW05B-GW-KH30149-REG	05 OCT 2004	09:52	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	



# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041005

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10/7/04 8:00

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	File	CID	QC Lvl	Condition On Receipt
KH30149	LF08-MW05B-GW-KH30149-REG	05 OCT 2004	09:52	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30149	LF08-MW05B-GW-KH30149-REG	05 OCT 2004	09:52	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30150	LF08-MW08A-GW-KH30150-REG	05 OCT 2004	13:25	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30150	LF08-MW08A-GW-KH30150-REG	05 OCT 2004	13:25	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30160	LF08-MW08A-GW-KH30160-REG	05 OCT 2004	13:25	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30150	LF08-MW08A-GW-KH30150-REG	05 OCT 2004	13:25	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30150	LF08-MW08A-GW-KH30150-REG	05 OCT 2004	13:25	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30150	LF08-MW08A-GW-KH30150-REG	05 OCT 2004	13:25	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30150	LF08-MW08A-GW-KH30150-REG	05 OCT 2004	13:25	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30150	LF08-MW08A-GW-KH30150-REG	05 OCT 2004	13:25	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N			
KH30151	LF08-MW08B-GW-KH30151-REG	05 OCT 2004	09:52	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30151	LF08-MW08B-GW-KH30151-REG	05 OCT 2004	09:52	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30151	LF08-MW08B-GW-KH30151-REG	05 OCT 2004	09:52	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30151	LF08-MW08B-GW-KH30151-REG	05 OCT 2004	09:52	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30151	LF08-MW08B-GW-KH30151-REG	05 OCT 2004	09:52	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30151	LF08-MW08B-GW-KH30151-REG	05 OCT 2004	09:52	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30151	LF08-MW08B-GW-KH30151-REG	05 OCT 2004	09:52	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30151	LF08-MW08B-GW-KH30151-REG	05 OCT 2004	09:52	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N			
KH30152	LF08-MW08C-GW-KH30152-REG	05 OCT 2004	15:25	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30152	LF08-MW08C-GW-KH30152-REG	05 OCT 2004	15:25	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30152	LF08-MW08C-GW-KH30152-REG	05 OCT 2004	15:25	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30152	LF08-MW08C-GW-KH30152-REG	05 OCT 2004	15:25	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30152	LF08-MW08C-GW-KH30152-REG	05 OCT 2004	15:25	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30152	LF08-MW08C-GW-KH30152-REG	05 OCT 2004	15:25	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30152	LF08-MW08C-GW-KH30152-REG	05 OCT 2004	15:25	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30152	LF08-MW08C-GW-KH30152-REG	05 OCT 2004	15:25	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N			
KH30191	FIELDQC-WA-KH30191-TB	05 OCT 2004	07:50	40 ML VOA Vial	2 HCl<pH 2	VOC by EPA 8260B with MTBE	N			

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041006

Page 1 of 2

Project Number: 829564

Samples Shipment Date: 07 OCT 2004

Bill To: Greg Plamondon

Project Name: WPAFB

Lab Destination: Severn Trent Lab

5050 Section Ave

Norwood

OH 45212

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon

5050 Section Ave

Norwood

OH 45212

Turnaround Time: *normal*

Project Contact: Denise Pohl

Carrier/Waybill No.: Relinquished to STL/ Cinci

## Special Instructions:

### Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

### Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By  
(Signature/Affiliation)

*Marie Chiller*

Date: 10/07/04  
Time: 11:15

1. Received By  
(Signature/Affiliation)

*Denise Pohl*

Date: 10/07/04  
Time: 11:15

2. Relinquished By  
(Signature/Affiliation)

*John Pohl*

Date: 10/07/04  
Time: 1400

2. Received By  
(Signature/Affiliation)

*John Pohl*

Date: 10/8/04  
Time: 8:15

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	FI	CID	QC Lvl	Condition On Receipt
KH30147	LF08-MW02C-GW-KH30147-REG	06 OCT 2004	09:38	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30147	LF08-MW02C-GW-KH30147-REG	06 OCT 2004	09:38	1 L HDPE	1	HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30147	LF08-MW02C-GW-KH30147-REG	06 OCT 2004	09:38	1 L Amb. Glass	2	None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30147	LF08-MW02C-GW-KH30147-REG	06 OCT 2004	09:38	1 L Amb. Glass	2	None except cool to 4 C	SVOC by EPA 8270C	N			
KH30147	LF08-MW02C-GW-KH30147-REG	06 OCT 2004	09:38	250 ML HDPE	1	H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30147	LF08-MW02C-GW-KH30147-REG	06 OCT 2004	09:38	1 L Amb. Glass	1	None except cool to 4 C	Extra Extractable	N			
KH30147	LF08-MW02C-GW-KH30147-REG	06 OCT 2004	09:38	250 ML HDPE	1	NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30147	LF08-MW02C-GW-KH30147-REG	06 OCT 2004	09:38	1 L Amb. Glass	2	None except cool to 4 C	Dioxins/Furans by EPA 8290	N			

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041006

Page 2 of 2

*John T. H. T. H.*  
*10/8/04* *8:15*

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	File	CID	QC Lvl	Condition On Receipt
KH30156	LF08-MW102-GW-KH30156-REG	06 OCT 2004	11:50	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30156	LF08-MW102-GW-KH30156-REG	06 OCT 2004	11:50	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30156	LF08-MW102-GW-KH30156-REG	06 OCT 2004	11:50	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30156	LF08-MW102-GW-KH30156-REG	06 OCT 2004	11:50	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30156	LF08-MW102-GW-KH30156-REG	06 OCT 2004	11:50	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30156	LF08-MW102-GW-KH30156-REG	06 OCT 2004	11:50	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30156	LF08-MW102-GW-KH30156-REG	06 OCT 2004	11:50	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30157	LF08-MW103-GW-KH30157-REG	06 OCT 2004	11:05	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30157	LF08-MW103-GW-KH30157-REG	06 OCT 2004	11:05	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30157	LF08-MW103-GW-KH30157-REG	06 OCT 2004	11:05	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30157	LF08-MW103-GW-KH30157-REG	06 OCT 2004	11:05	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30157	LF08-MW103-GW-KH30157-REG	06 OCT 2004	11:05	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30157	LF08-MW103-GW-KH30157-REG	06 OCT 2004	11:05	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30157	LF08-MW103-GW-KH30157-REG	06 OCT 2004	11:05	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30167	LF10-MW05C-GW-KH30167-REG	06 OCT 2004	09:40	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30167	LF10-MW05C-GW-KH30167-REG	06 OCT 2004	09:40	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30167	LF10-MW05C-GW-KH30167-REG	06 OCT 2004	09:40	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30167	LF10-MW05C-GW-KH30167-REG	06 OCT 2004	09:40	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30167	LF10-MW05C-GW-KH30167-REG	06 OCT 2004	09:40	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30167	LF10-MW05C-GW-KH30167-REG	06 OCT 2004	09:40	1 L Amb. Glass	1 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30167	LF10-MW05C-GW-KH30167-REG	06 OCT 2004	09:40	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30184	LF10-MW10C-GW-KH30184-AB	06 OCT 2004	15:10	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30185	LF10-MW10C-GW-KH30185-REG	06 OCT 2004	15:10	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30185	LF10-MW10C-GW-KH30185-REG	06 OCT 2004	15:10	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30185	LF10-MW10C-GW-KH30185-REG	06 OCT 2004	15:10	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30185	LF10-MW10C-GW-KH30185-REG	06 OCT 2004	15:10	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30185	LF10-MW10C-GW-KH30185-REG	06 OCT 2004	15:10	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N			
KH30185	LF10-MW10C-GW-KH30185-REG	06 OCT 2004	15:10	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30185	LF10-MW10C-GW-KH30185-REG	06 OCT 2004	15:10	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30185	LF10-MW10C-GW-KH30185-REG	06 OCT 2004	15:10	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30192	FIELDQC-WA-KH30192-TB	06 OCT 2004	07:40	40 ML VOA Vial	2 HCl<pH 2	VOC by EPA 8260B with MTBE	N			

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041007

Page 1 of 2

Project Number: 829564

Samples Shipment Date: 08 OCT 2004

Bill To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212

Project Name: WPAFB

Lab Destination: Severn Trent Lab

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212

Turnaround Time: *normal*

Project Contact: Denise Pohl

Carrier/Waybill No.: Relinquished to STU Cincinnati

## Special Instructions:

### Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

### Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive ☐ (mos.)

1. Relinquished By  
(Signature/Affiliation)

*Marie Chiller*

Date: *10/09/04*  
Time:

1. Received By  
(Signature/Affiliation)

*Amie Keene*

Date: *10/8/04*  
Time: *1600pm*

2. Relinquished By  
(Signature/Affiliation)

*Amie Keene*

Date: *10/8/04*  
Time: *1600pm*

2. Received By  
(Signature/Affiliation)

*Amie Keene*

Date: *10/9/04*  
Time: *955A*

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

### Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	FI	CID	QC Lvl	Condition On Receipt
KH30181	LF10-MW103-GW-KH30181-REG	07 OCT 2004	08:45	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30181	LF10-MW103-GW-KH30181-REG	07 OCT 2004	08:45	1 L HDPE	1	HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30181	LF10-MW103-GW-KH30181-REG	07 OCT 2004	08:45	1 L Amb. Glass	1	None except cool to 4 C	SVOC by EPA 8270C	N			
KH30181	LF10-MW103-GW-KH30181-REG	07 OCT 2004	08:45	1 L Amb. Glass	1	None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30181	LF10-MW103-GW-KH30181-REG	07 OCT 2004	08:45	1 L Amb. Glass	1	None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30181	LF10-MW103-GW-KH30181-REG	07 OCT 2004	08:45	250 ML HDPE	1	H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30181	LF10-MW103-GW-KH30181-REG	07 OCT 2004	08:45	250 ML HDPE	1	NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30183	LF10-MW103-GW-KH30183-REG	07 OCT 2004	09:47	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N			

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041007

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Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	QC	Condition On
							File CID Lvl	Receipt
KH30183	LF10-MW105-GW-KH30183-REG	07 OCT 2004	09:47	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30183	LF10-MW105-GW-KH30183-REG	07 OCT 2004	09:47	1 L Amb. Glass	1 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30183	LF10-MW105-GW-KH30183-REG	07 OCT 2004	09:47	1 L Amb. Glass	1 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30183	LF10-MW105-GW-KH30183-REG	07 OCT 2004	09:47	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30183	LF10-MW105-GW-KH30183-REG	07 OCT 2004	09:47	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	

*Rec'd by Anne Sanders 10/9/04 9:55 AM*

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041011

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Project Number: 829564

Samples Shipment Date: 12 OCT 2004

Bill To: Greg Plamondon

Project Name: WPAFB

Lab Destination: Severn Trent Lab

5050 Section Ave

Norwood

OH 45212

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon

5050 Section Ave

Norwood

OH 45212

Turnaround Time: *normal*

Project Contact: Denise Pohl

Carrier/Waybill No.: Relinquished to STL/ Cincinnati

## Special Instructions:

### Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

### Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By  
(Signature/Affiliation) *[Signature]*

Date: *10/12/04*  
Time:

1. Received By  
(Signature/Affiliation) *[Signature]*

Date: *10/12/04*  
Time: *1100*

2. Relinquished By  
(Signature/Affiliation) *[Signature]*

Date: *10/12/04*  
Time: *1500*

2. Received By  
(Signature/Affiliation) *[Signature]*

Date: *10/13/04*  
Time: *8:00*

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File CID	QC Lvl	Condition On Receipt
KH30168	LF10-MW06A-GW-KH30168-REG	11 OCT 2004	15:20	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		
KH30168	LF10-MW06A-GW-KH30168-REG	11 OCT 2004	15:20	1 L HDPE	1	HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N		
KH30168	LF10-MW06A-GW-KH30168-REG	11 OCT 2004	15:20	1 L Amb. Glass	2	None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N		
KH30168	LF10-MW06A-GW-KH30168-REG	11 OCT 2004	15:20	1 L Amb. Glass	2	None except cool to 4 C	Dioxins/Furans by EPA 8290	N		
KH30168	LF10-MW06A-GW-KH30168-REG	11 OCT 2004	15:20	1 L Amb. Glass	2	None except cool to 4 C	SVOC by EPA 8270C	N		
KH30168	LF10-MW06A-GW-KH30168-REG	11 OCT 2004	15:20	250 ML HDPE	1	H2SO4<pH 2	Ammonia by EPA 350.3	N		
KH30168	LF10-MW06A-GW-KH30168-REG	11 OCT 2004	15:20	250 ML HDPE	1	NaOH>pH 12	Total Cyanide by EPA 335.2	N		
KH30170	LF10-MW06B-GW-KH30170-REG	11 OCT 2004	12:00	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041011

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*Job 1421011  
10/13/04  
E.L.C.*

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	QC	Condition On Receipt
							FIL CID LVI	
KH30170	LF10-MW06B-GW-KH30170-REG	11 OCT 2004	12:00	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30170	LF10-MW06B-GW-KH30170-REG	11 OCT 2004	12:00	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30170	LF10-MW06B-GW-KH30170-REG	11 OCT 2004	12:00	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30170	LF10-MW06B-GW-KH30170-REG	11 OCT 2004	12:00	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30170	LF10-MW06B-GW-KH30170-REG	11 OCT 2004	12:00	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30170	LF10-MW06B-GW-KH30170-REG	11 OCT 2004	12:00	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30171	LF10-MW07A-GW-KH30171-FD	11 OCT 2004	15:03	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30171	LF10-MW07A-GW-KH30171-FD	11 OCT 2004	15:03	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30171	LF10-MW07A-GW-KH30171-FD	11 OCT 2004	15:03	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30171	LF10-MW07A-GW-KH30171-FD	11 OCT 2004	15:03	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30171	LF10-MW07A-GW-KH30171-FD	11 OCT 2004	15:03	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30171	LF10-MW07A-GW-KH30171-FD	11 OCT 2004	15:03	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30171	LF10-MW07A-GW-KH30171-FD	11 OCT 2004	15:03	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30171	LF10-MW07A-GW-KH30171-FD	11 OCT 2004	15:03	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30172	LF10-MW07A-GW-KH30172-REG	11 OCT 2004	15:03	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30172	LF10-MW07A-GW-KH30172-REG	11 OCT 2004	15:03	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30172	LF10-MW07A-GW-KH30172-REG	11 OCT 2004	15:03	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30172	LF10-MW07A-GW-KH30172-REG	11 OCT 2004	15:03	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30172	LF10-MW07A-GW-KH30172-REG	11 OCT 2004	15:03	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30172	LF10-MW07A-GW-KH30172-REG	11 OCT 2004	15:03	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30172	LF10-MW07A-GW-KH30172-REG	11 OCT 2004	15:03	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30172	LF10-MW07A-GW-KH30172-REG	11 OCT 2004	15:03	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30174	LF10-MW07C-GW-KH30174-REG	11 OCT 2004	10:12	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30174	LF10-MW07C-GW-KH30174-REG	11 OCT 2004	10:12	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30174	LF10-MW07C-GW-KH30174-REG	11 OCT 2004	10:12	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30174	LF10-MW07C-GW-KH30174-REG	11 OCT 2004	10:12	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30174	LF10-MW07C-GW-KH30174-REG	11 OCT 2004	10:12	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30174	LF10-MW07C-GW-KH30174-REG	11 OCT 2004	10:12	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30174	LF10-MW07C-GW-KH30174-REG	11 OCT 2004	10:12	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30177	LF10-MW08A-GW-KH30177-REG	11 OCT 2004	09:42	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30177	LF10-MW08A-GW-KH30177-REG	11 OCT 2004	09:42	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30177	LF10-MW08A-GW-KH30177-REG	11 OCT 2004	09:42	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	



# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041011

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Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	QC	Condition On Receipt
							Fil CID LVI	
KH30177	LF10-MW09A-GW-KH30177-REG	11 OCT 2004	09:42	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30177	LF10-MW09A-GW-KH30177-REG	11 OCT 2004	09:42	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30177	LF10-MW09A-GW-KH30177-REG	11 OCT 2004	09:42	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30177	LF10-MW09A-GW-KH30177-REG	11 OCT 2004	09:42	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30177	LF10-MW09A-GW-KH30177-REG	11 OCT 2004	09:42	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30178	LF10-MW09B-GW-KH30178-REG	11 OCT 2004	11:37	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30178	LF10-MW09B-GW-KH30178-REG	11 OCT 2004	11:37	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30178	LF10-MW09B-GW-KH30178-REG	11 OCT 2004	11:37	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30178	LF10-MW09B-GW-KH30178-REG	11 OCT 2004	11:37	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30178	LF10-MW09B-GW-KH30178-REG	11 OCT 2004	11:37	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30178	LF10-MW09B-GW-KH30178-REG	11 OCT 2004	11:37	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30178	LF10-MW09B-GW-KH30178-REG	11 OCT 2004	11:37	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30178	LF10-MW09B-GW-KH30178-REG	11 OCT 2004	11:37	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30178MS	LF10-MW09B-GW-KH30178MS-MS	11 OCT 2004	11:37	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30178MS	LF10-MW09B-GW-KH30178MS-MS	11 OCT 2004	11:37	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30178MS	LF10-MW09B-GW-KH30178MS-MS	11 OCT 2004	11:37	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30178MS	LF10-MW09B-GW-KH30178MS-MS	11 OCT 2004	11:37	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30178MS	LF10-MW09B-GW-KH30178MS-MS	11 OCT 2004	11:37	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30178MS	LF10-MW09B-GW-KH30178MS-MS	11 OCT 2004	11:37	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30178MS	LF10-MW09B-GW-KH30178MS-MS	11 OCT 2004	11:37	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30178MS	LF10-MW09B-GW-KH30178MS-MS	11 OCT 2004	11:37	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30178MSD	LF10-MW09B-GW-KH30178MSD-MSD	11 OCT 2004	11:37	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30178MSD	LF10-MW09B-GW-KH30178MSD-MSD	11 OCT 2004	11:37	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30178MSD	LF10-MW09B-GW-KH30178MSD-MSD	11 OCT 2004	11:37	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30178MSD	LF10-MW09B-GW-KH30178MSD-MSD	11 OCT 2004	11:37	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30178MSD	LF10-MW09B-GW-KH30178MSD-MSD	11 OCT 2004	11:37	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30178MSD	LF10-MW09B-GW-KH30178MSD-MSD	11 OCT 2004	11:37	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30178MSD	LF10-MW09B-GW-KH30178MSD-MSD	11 OCT 2004	11:37	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30178MSD	LF10-MW09B-GW-KH30178MSD-MSD	11 OCT 2004	11:37	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30179	LF10-MW09C-GW-KH30179-REG	11 OCT 2004	14:20	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30179	LF10-MW09C-GW-KH30179-REG	11 OCT 2004	14:20	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30179	LF10-MW09C-GW-KH30179-REG	11 OCT 2004	14:20	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30179	LF10-MW09C-GW-KH30179-REG	11 OCT 2004	14:20	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041011

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*file 7 1/2 test kit  
10/13/04 8.00*

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Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	QC	Condition On Receipt
							FIL CID LVI	
KH30179	LF10-MW09C-GW-KH30179-REG	11 OCT 2004	14:20	1 L Amb. Glass	2	None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N
KH30179	LF10-MW09C-GW-KH30179-REG	11 OCT 2004	14:20	1 L Amb. Glass	2	None except cool to 4 C	SVOC by EPA 8270C	N
KH30179	LF10-MW09C-GW-KH30179-REG	11 OCT 2004	14:20	250 ML HDPE	1	NaOH>pH 12	Total Cyanide by EPA 335.2	N
KH30179	LF10-MW09C-GW-KH30179-REG	11 OCT 2004	14:20	1 L Amb. Glass	1	None except cool to 4 C	Extra Extractable	N
KH30188	LF10-MW11A-GW-KH30188-REG	11 OCT 2004	16:10	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N
KH30188	LF10-MW11A-GW-KH30188-REG	11 OCT 2004	16:10	1 L HDPE	1	HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N
KH30188	LF10-MW11A-GW-KH30188-REG	11 OCT 2004	16:10	1 L Amb. Glass	2	None except cool to 4 C	SVOC by EPA 8270C	N
KH30188	LF10-MW11A-GW-KH30188-REG	11 OCT 2004	16:10	1 L Amb. Glass	2	None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N
KH30188	LF10-MW11A-GW-KH30188-REG	11 OCT 2004	16:10	1 L Amb. Glass	2	None except cool to 4 C	Dioxins/Furans by EPA 8290	N
KH30188	LF10-MW11A-GW-KH30188-REG	11 OCT 2004	16:10	250 ML HDPE	1	H2SO4<pH 2	Ammonia by EPA 350.3	N
KH30188	LF10-MW11A-GW-KH30188-REG	11 OCT 2004	16:10	250 ML HDPE	1	NaOH>pH 12	Total Cyanide by EPA 335.2	N
KH30188	LF10-MW11A-GW-KH30188-REG	11 OCT 2004	16:10	1 L Amb. Glass	1	None except cool to 4 C	Extra Extractable	N
KH30183	FIELDQC-WA-KH30183-TB	11 OCT 2004	07:45	40 ML VOA Vial	2	HCl<pH 2	VOC by EPA 8260B with MTBE	N

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041012

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Project Number: 829584

Samples Shipment Date: 13 OCT 2004

Bill To: Greg Plamondon

Project Name: WPAFB

Lab Destination: Severn Trent Lab

5050 Section Ave

Norwood

OH 45212

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon

Turnaround Time: *normal*

Project Contact: Denise Pohl

5050 Section Ave

Norwood

OH 45212

Carrier/Waybill No.: Relinquished to STL/ Cinci

## Special Instructions:

### Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

### Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By  
(Signature/Affiliation)

*Marie Chiller*

Date: 10/13/04

Time:

1. Received By  
(Signature/Affiliation)

*Greg Plamondon*

Date: 10/13/04

Time: 10:30

2. Relinquished By  
(Signature/Affiliation)

*Greg Plamondon*

Date: 10/13/04

Time: 12:30

2. Received By  
(Signature/Affiliation)

*John F. Hall*

Date: 10/14/04

Time: 8:30

3. Relinquished By  
(Signature/Affiliation)

Date:

Time:

3. Received By  
(Signature/Affiliation)

Date:

Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	QC Fil CID Lvl	Condition On Receipt
KH30159	LF08-MW10B-GW-KH30159-REG	12 OCT 2004	10:32	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30159	LF08-MW10B-GW-KH30159-REG	12 OCT 2004	10:32	1 L HDPE	1	HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30159	LF08-MW10B-GW-KH30159-REG	12 OCT 2004	10:32	1 L Amb. Glass	2	None except cool to 4 C	SVOC by EPA 8270C	N	
KH30159	LF08-MW10B-GW-KH30159-REG	12 OCT 2004	10:32	250 ML HDPE	1	H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30159	LF08-MW10B-GW-KH30159-REG	12 OCT 2004	10:32	1 L Amb. Glass	2	None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30159	LF08-MW10B-GW-KH30159-REG	12 OCT 2004	10:32	1 L Amb. Glass	2	None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30159	LF08-MW10B-GW-KH30159-REG	12 OCT 2004	10:32	250 ML HDPE	1	NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30159	LF08-MW10B-GW-KH30159-REG	12 OCT 2004	10:32	1 L Amb. Glass	1	None except cool to 4 C	Extra Extractable	N	

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041012

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*Lab Retention*  
10/14/04 8:30

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Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	QC	Condition On Receipt
							File CID Lvl	
KH30189	LF10-MW08ADUP-GW-KH30189-REG	12 OCT 2004	08:57	40 ML VOA Vial	2 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30187	LF10-MW11B-GW-KH30187-FD	12 OCT 2004	13:47	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30187	LF10-MW11B-GW-KH30187-FD	12 OCT 2004	13:47	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30187	LF10-MW11B-GW-KH30187-FD	12 OCT 2004	13:47	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30187	LF10-MW11B-GW-KH30187-FD	12 OCT 2004	13:47	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30187	LF10-MW11B-GW-KH30187-FD	12 OCT 2004	13:47	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30187	LF10-MW11B-GW-KH30187-FD	12 OCT 2004	13:47	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30187	LF10-MW11B-GW-KH30187-FD	12 OCT 2004	13:47	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30187	LF10-MW11B-GW-KH30187-FD	12 OCT 2004	13:47	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30188	LF10-MW11B-GW-KH30188-REG	12 OCT 2004	13:47	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30188	LF10-MW11B-GW-KH30188-REG	12 OCT 2004	13:47	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30188	LF10-MW11B-GW-KH30188-REG	12 OCT 2004	13:47	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30188	LF10-MW11B-GW-KH30188-REG	12 OCT 2004	13:47	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30188	LF10-MW11B-GW-KH30188-REG	12 OCT 2004	13:47	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30188	LF10-MW11B-GW-KH30188-REG	12 OCT 2004	13:47	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30188	LF10-MW11B-GW-KH30188-REG	12 OCT 2004	13:47	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30188	LF10-MW11B-GW-KH30188-REG	12 OCT 2004	13:47	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041013

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Project Number: 829564

Samples Shipment Date: 14 OCT 2004

Bill To: Greg Plamondon

Project Name: WPAFB

Lab Destination: Severn Trent Lab

5050 Section Ave

Norwood

OH 45212

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon

5050 Section Ave

Norwood

OH 45212

Turnaround Time: *normal*

Project Contact: Denise Pohl

Carrier/Waybill No.: Relinquished to STL/ Cinci

## Special Instructions:

## Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

## Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive ☐ (mos.)

1. Relinquished By *Marie Chiller* Date: *10/14/04*  
(Signature/Affiliation) Time: *1230*

2. Relinquished By *John Pohl* Date: *10/14/04*  
(Signature/Affiliation) Time: *1515*

3. Relinquished By \_\_\_\_\_ Date: \_\_\_\_\_  
(Signature/Affiliation) Time: \_\_\_\_\_

1. Received By *John Pohl* Date: *10/14/04*  
(Signature/Affiliation) Time: *1230*

2. Received By *John Pohl* Date: *10/15/04*  
(Signature/Affiliation) Time: *7:30*

3. Received By \_\_\_\_\_ Date: \_\_\_\_\_  
(Signature/Affiliation) Time: \_\_\_\_\_

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	FII	CID	QC Lvl	Condition On Receipt
KH30136	01-DM-102D-M-GW-KH30136-REG	13 OCT 2004	15:35	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30136	01-DM-102D-M-GW-KH30136-REG	13 OCT 2004	15:35	1 L HDPE	1	HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30136	01-DM-102D-M-GW-KH30136-REG	13 OCT 2004	15:35	1 L Amb. Glass	2	None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30136	01-DM-102D-M-GW-KH30136-REG	13 OCT 2004	15:35	1 L Amb. Glass	2	None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30136	01-DM-102D-M-GW-KH30136-REG	13 OCT 2004	15:35	1 L Amb. Glass	2	None except cool to 4 C	SVOC by EPA 8270C	N			
KH30136	01-DM-102D-M-GW-KH30136-REG	13 OCT 2004	15:35	250 ML HDPE	1	H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30136	01-DM-102D-M-GW-KH30136-REG	13 OCT 2004	15:35	250 ML HDPE	1	NaOH<pH 12	Total Cyanide by EPA 335.2	N			
KH30161	LF08-MW11A-GW-KH30161-REG	13 OCT 2004	15:17	250 ML HDPE	1	NaOH<pH 12	Total Cyanide by EPA 335.2	N			

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041013

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*John H. Felt*  
10/15/04 7.30

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Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	QC Lvl	Condition On Receipt
KH30161	LF08-MW11A-GW-KH30161-REG	13 OCT 2004	15:17	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30161	LF08-MW11A-GW-KH30161-REG	13 OCT 2004	15:17	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30161	LF08-MW11A-GW-KH30161-REG	13 OCT 2004	15:17	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30161	LF08-MW11A-GW-KH30161-REG	13 OCT 2004	15:17	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30161	LF08-MW11A-GW-KH30161-REG	13 OCT 2004	15:17	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30161	LF08-MW11A-GW-KH30161-REG	13 OCT 2004	15:17	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30161	LF08-MW11A-GW-KH30161-REG	13 OCT 2004	15:17	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30162	LF08-MW11B-GW-KH30162-REG	13 OCT 2004	10:30	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30162	LF08-MW11B-GW-KH30162-REG	13 OCT 2004	10:30	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30162	LF08-MW11B-GW-KH30162-REG	13 OCT 2004	10:30	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30162	LF08-MW11B-GW-KH30162-REG	13 OCT 2004	10:30	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30162	LF08-MW11B-GW-KH30162-REG	13 OCT 2004	10:30	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30162	LF08-MW11B-GW-KH30162-REG	13 OCT 2004	10:30	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30162	LF08-MW11B-GW-KH30162-REG	13 OCT 2004	10:30	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30162	LF08-MW11B-GW-KH30162-REG	13 OCT 2004	10:30	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30162MS	LF08-MW11B-GW-KH30162MS-MS	13 OCT 2004	10:30	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30162MS	LF08-MW11B-GW-KH30162MS-MS	13 OCT 2004	10:30	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30162MS	LF08-MW11B-GW-KH30162MS-MS	13 OCT 2004	10:30	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30162MS	LF08-MW11B-GW-KH30162MS-MS	13 OCT 2004	10:30	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30162MS	LF08-MW11B-GW-KH30162MS-MS	13 OCT 2004	10:30	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30162MS	LF08-MW11B-GW-KH30162MS-MS	13 OCT 2004	10:30	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30162MS	LF08-MW11B-GW-KH30162MS-MS	13 OCT 2004	10:30	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30162MS	LF08-MW11B-GW-KH30162MS-MS	13 OCT 2004	10:30	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30162MSD	LF08-MW11B-GW-KH30162MSD-MSD	13 OCT 2004	10:30	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30162MSD	LF08-MW11B-GW-KH30162MSD-MSD	13 OCT 2004	10:30	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N	
KH30162MSD	LF08-MW11B-GW-KH30162MSD-MSD	13 OCT 2004	10:30	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30162MSD	LF08-MW11B-GW-KH30162MSD-MSD	13 OCT 2004	10:30	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30162MSD	LF08-MW11B-GW-KH30162MSD-MSD	13 OCT 2004	10:30	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30162MSD	LF08-MW11B-GW-KH30162MSD-MSD	13 OCT 2004	10:30	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30162MSD	LF08-MW11B-GW-KH30162MSD-MSD	13 OCT 2004	10:30	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30162MSD	LF08-MW11B-GW-KH30162MSD-MSD	13 OCT 2004	10:30	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30163	LF08-MW11C-GW-KH30163-REG	13 OCT 2004	15:42	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	

STL North Canton

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041013

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*Yut 10/15/04 9:30*

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	QC	Condition On Receipt
File	CID	Lvl						
KH30163	LF08-MW11C-GW-KH30163-REG	13 OCT 2004	15:42	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30163	LF08-MW11C-GW-KH30163-REG	13 OCT 2004	15:42	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30163	LF08-MW11C-GW-KH30163-REG	13 OCT 2004	15:42	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30163	LF08-MW11C-GW-KH30163-REG	13 OCT 2004	15:42	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30163	LF08-MW11C-GW-KH30163-REG	13 OCT 2004	15:42	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30163	LF08-MW11C-GW-KH30163-REG	13 OCT 2004	15:42	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30164	LF10-MW03A-GW-KH30164-REG	13 OCT 2004	16:10	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30164	LF10-MW03A-GW-KH30164-REG	13 OCT 2004	16:10	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30164	LF10-MW03A-GW-KH30164-REG	13 OCT 2004	16:10	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30164	LF10-MW03A-GW-KH30164-REG	13 OCT 2004	16:10	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30175	LF10-MW08A-2-GW-KH30175-REG	13 OCT 2004	10:30	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N	
KH30175	LF10-MW08A-2-GW-KH30175-REG	13 OCT 2004	10:30	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N	
KH30175	LF10-MW08A-2-GW-KH30175-REG	13 OCT 2004	10:30	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N	
KH30175	LF10-MW08A-2-GW-KH30175-REG	13 OCT 2004	10:30	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N	
KH30175	LF10-MW08A-2-GW-KH30175-REG	13 OCT 2004	10:30	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N	
KH30175	LF10-MW08A-2-GW-KH30175-REG	13 OCT 2004	10:30	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N	
KH30175	LF10-MW08A-2-GW-KH30175-REG	13 OCT 2004	10:30	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N	
KH30184	FIEL00C-WA-KH30184-TB	13 OCT 2004	07:45	40 ML VOA Vial	2 HCl<pH 2	VOC by EPA 8260B with MTBE	N	



# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041018

Page 1 of 3

Project Number: 829564

Samples Shipment Date: 19 OCT 2004

Bill To: Greg Plamondon

Project Name: WPAFB

Lab Destination: Severn Trent Lab

5050 Section Ave

Nonwood

OH 45212

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon

5050 Section Ave

Nonwood

OH 45212

Turnaround Time:

*normal*

Project Contact: Denise Pohl

Carrier/Waybill No.: Relinquished to STL/ Cinci

## Special Instructions:

### Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

### Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By  
(Signature/Affiliation)

*Marie Chiller*

Date: 10/19/04  
Time:

1. Received By  
(Signature/Affiliation)

*Greg Plamondon*

Date: 10/19/04  
Time: 1730

2. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

2. Received By  
(Signature/Affiliation)

*John McFarlane*

Date: 10/20/04  
Time: 7:30

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File	CID	QC Lvl	Condition On Receipt
KH30143	D2-DM-84-M-GW-KH30143-FD	18 OCT 2004	09:28	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30143	D2-DM-84-M-GW-KH30143-FD	18 OCT 2004	09:28	1 L HDPE	1	HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30143	D2-DM-84-M-GW-KH30143-FD	18 OCT 2004	09:28	1 L Amb. Glass	2	None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30143	D2-DM-84-M-GW-KH30143-FD	18 OCT 2004	09:28	1 L Amb. Glass	2	None except cool to 4 C	SVOC by EPA 8270C	N			
KH30143	D2-DM-84-M-GW-KH30143-FD	18 OCT 2004	09:28	250 ML HDPE	1	H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30143	D2-DM-84-M-GW-KH30143-FD	18 OCT 2004	09:28	250 ML HDPE	1	NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30143	D2-DM-84-M-GW-KH30143-FD	18 OCT 2004	09:28	1 L Amb. Glass	2	None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30144	D2-DM-84-M-GW-KH30144-REG	18 OCT 2004	09:28	250 ML HDPE	1	NaOH>pH 12	Total Cyanide by EPA 335.2	N			

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041018

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*John Thibault*  
10/20/04 7:30

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Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	FI	CID	QC Lvl	Condition On Receipt
KH30144	02-DM-84-M-GW-KH30144-REG	18 OCT 2004	09:28	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30144	02-DM-84-M-GW-KH30144-REG	18 OCT 2004	09:28	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30144	02-DM-84-M-GW-KH30144-REG	18 OCT 2004	09:28	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30144	02-DM-84-M-GW-KH30144-REG	18 OCT 2004	09:28	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30144	02-DM-84-M-GW-KH30144-REG	18 OCT 2004	09:28	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30144	02-DM-84-M-GW-KH30144-REG	18 OCT 2004	09:28	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30153	LF08-MW09A-GW-KH30153-REG	18 OCT 2004	14:37	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30153	LF08-MW09A-GW-KH30153-REG	18 OCT 2004	14:37	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30153	LF08-MW09A-GW-KH30153-REG	18 OCT 2004	14:37	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30153	LF08-MW09A-GW-KH30153-REG	18 OCT 2004	14:37	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30154	LF08-MW09B-GW-KH30154-REG	18 OCT 2004	09:32	1 L Amb. Glass	1 None except cool to 4 C	Extra Extractable	N			
KH30154	LF08-MW09B-GW-KH30154-REG	18 OCT 2004	09:32	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30154	LF08-MW09B-GW-KH30154-REG	18 OCT 2004	09:32	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30154	LF08-MW09B-GW-KH30154-REG	18 OCT 2004	09:32	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30154	LF08-MW09B-GW-KH30154-REG	18 OCT 2004	09:32	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30154	LF08-MW09B-GW-KH30154-REG	18 OCT 2004	09:32	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30154	LF08-MW09B-GW-KH30154-REG	18 OCT 2004	09:32	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30154	LF08-MW09B-GW-KH30154-REG	18 OCT 2004	09:32	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30154MS	LF08-MW09B-GW-KH30154MS-MS	18 OCT 2004	09:32	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30154MS	LF08-MW09B-GW-KH30154MS-MS	18 OCT 2004	09:32	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30154MS	LF08-MW09B-GW-KH30154MS-MS	18 OCT 2004	09:32	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30154MS	LF08-MW09B-GW-KH30154MS-MS	18 OCT 2004	09:32	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30154MS	LF08-MW09B-GW-KH30154MS-MS	18 OCT 2004	09:32	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30154MS	LF08-MW09B-GW-KH30154MS-MS	18 OCT 2004	09:32	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30154MS	LF08-MW09B-GW-KH30154MS-MS	18 OCT 2004	09:32	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30154MSD	LF08-MW09B-GW-KH30154MSD-MSD	18 OCT 2004	09:32	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30154MSD	LF08-MW09B-GW-KH30154MSD-MSD	18 OCT 2004	09:32	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30154MSD	LF08-MW09B-GW-KH30154MSD-MSD	18 OCT 2004	09:32	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30154MSD	LF08-MW09B-GW-KH30154MSD-MSD	18 OCT 2004	09:32	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30154MSD	LF08-MW09B-GW-KH30154MSD-MSD	18 OCT 2004	09:32	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30154MSD	LF08-MW09B-GW-KH30154MSD-MSD	18 OCT 2004	09:32	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30154MSD	LF08-MW09B-GW-KH30154MSD-MSD	18 OCT 2004	09:32	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			

STL North Canton

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041018

Page 3 of 3

*John Mitro*  
10/20/04 7:30

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	FI	CID	QC Lvl	Condition On Receipt
KH30178	LF10-MW08B-GW-KH30178-REG	18 OCT 2004	14:05	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30178	LF10-MW08B-GW-KH30178-REG	18 OCT 2004	14:05	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30178	LF10-MW08B-GW-KH30178-REG	18 OCT 2004	14:05	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30178	LF10-MW08B-GW-KH30178-REG	18 OCT 2004	14:05	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30178	LF10-MW08B-GW-KH30178-REG	18 OCT 2004	14:05	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30178	LF10-MW08B-GW-KH30178-REG	18 OCT 2004	14:05	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30178	LF10-MW08B-GW-KH30178-REG	18 OCT 2004	14:05	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30185	FIELDQC-WA-KH30185-TB	18 OCT 2004	07:40	40 ML VOA Vial	2 HCl<pH 2	VOC by EPA 8260B with MTBE	N			

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041020

Page 1 of 2

Project Number: 829564  
Project Name: WPAFB  
Sample Coordinator: Marie Chiller  
Turnaround Time: *normal*

Samples Shipment Date: 21 OCT 2004  
Lab Destination: Severn Trent Lab  
Lab Contact: Denise Pohl  
Project Contact: Denise Pohl  
Carrier/Waybill No.: Relinquished to STL/ Cincinnati

Bill To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212

Report To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212

## Special Instructions:

### Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

### Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By  
(Signature/Affiliation) *Marie Chiller*

Date: 10/21/04  
Time: 1400

1. Received By  
(Signature/Affiliation) *Greg Plamondon*

Date: 10/21/04  
Time: 1400

2. Relinquished By  
(Signature/Affiliation) *Greg Plamondon*

Date: 10/21/04  
Time: 1500

2. Received By  
(Signature/Affiliation) *JL McF*

Date: 10/22/04  
Time: 9:25

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File	CID	QC Lvl	Condition On Receipt
KH30135	01-004-M-GW-KH30135-REG	20 OCT 2004	11:00	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30135	01-004-M-GW-KH30135-REG	20 OCT 2004	11:00	1 L HDPE	1	HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30135	01-004-M-GW-KH30135-REG	20 OCT 2004	11:00	1 L Amb. Glass	2	None except cool to 4 C	SVOC by EPA 8270C	N			
KH30135	01-004-M-GW-KH30135-REG	20 OCT 2004	11:00	1 L Amb. Glass	2	None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30135	01-004-M-GW-KH30135-REG	20 OCT 2004	11:00	1 L Amb. Glass	2	None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30135	01-004-M-GW-KH30135-REG	20 OCT 2004	11:00	250 ML HDPE	1	H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30135	01-004-M-GW-KH30135-REG	20 OCT 2004	11:00	250 ML HDPE	1	NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30141	02-DM-83D-M-GW-KH30141-REG	20 OCT 2004	11:20	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N			

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: KH041020

Page 2 of 2

*John [unclear]  
10/22/04 9:25*

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Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	FI	CID	QC Lvl	Condition On Receipt
KH30141	02-DM-83D-M-GW-KH30141-REG	20 OCT 2004	11:20	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30141	02-DM-83D-M-GW-KH30141-REG	20 OCT 2004	11:20	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30141	02-DM-83D-M-GW-KH30141-REG	20 OCT 2004	11:20	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30141	02-DM-83D-M-GW-KH30141-REG	20 OCT 2004	11:20	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30141	02-DM-83D-M-GW-KH30141-REG	20 OCT 2004	11:20	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30141	02-DM-83D-M-GW-KH30141-REG	20 OCT 2004	11:20	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30142	02-DM-83S-M-GW-KH30142-REG	20 OCT 2004	14:23	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30142	02-DM-83S-M-GW-KH30142-REG	20 OCT 2004	14:23	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30142	02-DM-83S-M-GW-KH30142-REG	20 OCT 2004	14:23	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30142	02-DM-83S-M-GW-KH30142-REG	20 OCT 2004	14:23	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30142	02-DM-83S-M-GW-KH30142-REG	20 OCT 2004	14:23	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30142	02-DM-83S-M-GW-KH30142-REG	20 OCT 2004	14:23	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30142	02-DM-83S-M-GW-KH30142-REG	20 OCT 2004	14:23	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30158	LF08-MW10A-GW-KH30158-REG	20 OCT 2004	09:33	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30158	LF08-MW10A-GW-KH30158-REG	20 OCT 2004	09:33	1 L Amb. Glass	2 None except cool to 4 C	Dioxins/Furans by EPA 8290	N			
KH30158	LF08-MW10A-GW-KH30158-REG	20 OCT 2004	09:33	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30158	LF08-MW10A-GW-KH30158-REG	20 OCT 2004	09:33	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30158	LF08-MW10A-GW-KH30158-REG	20 OCT 2004	09:33	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30158	LF08-MW10A-GW-KH30158-REG	20 OCT 2004	09:33	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30158	LF08-MW10A-GW-KH30158-REG	20 OCT 2004	09:33	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30160	LF08-MW10C-GW-KH30160-REG	20 OCT 2004	17:07	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
KH30160	LF08-MW10C-GW-KH30160-REG	20 OCT 2004	17:07	1 L HDPE	1 HNO3<pH 2	TAL Total Metals by EPA 200.7 / 245.1	N			
KH30160	LF08-MW10C-GW-KH30160-REG	20 OCT 2004	17:07	1 L Amb. Glass	2 None except cool to 4 C	SVOC by EPA 8270C	N			
KH30160	LF08-MW10C-GW-KH30160-REG	20 OCT 2004	17:07	1 L Amb. Glass	2 None except cool to 4 C	PEST/PCB by EPA 8081A / 8082	N			
KH30160	LF08-MW10C-GW-KH30160-REG	20 OCT 2004	17:07	250 ML HDPE	1 H2SO4<pH 2	Ammonia by EPA 350.3	N			
KH30160	LF08-MW10C-GW-KH30160-REG	20 OCT 2004	17:07	250 ML HDPE	1 NaOH>pH 12	Total Cyanide by EPA 335.2	N			
KH30160	FIELDQC-WA-KH30160-TB	20 OCT 2004	07:50	40 ML VOA Vial	2 HCl<pH 2	VOC by EPA 8260B with MTBE	N			

**C3**

**City of Fairborn Quarterly Effluent Monitoring Transmittal Letters**



Shaw Environmental, Inc.

5050 Section Avenue  
Cincinnati, OH 45212-2025  
513.782.4700  
Fax: 513.782.4807

August 16, 2004

Mr. Frank Barosky  
Water Projects Coordinator  
Water Reclamation Center  
City of Fairborn  
44 West Hebble Avenue  
Fairborn, Ohio 45234

Re: Wright-Patterson Air Force Base Landfills 8 and 10 Leachate Discharge System Monitoring  
Analytical Results: July 2004; Contract No.: F33601-01-D-W002

Dear Mr. Barosky:


Per the Statement of Work for the Long-term Monitoring program being conducted at Wright-Patterson Air Force Base (WPAFB), Shaw Environmental, Inc. (Shaw) is providing the City of Fairborn with the analytical results from the July 28, 2004 sample taken from the leachate discharge system at Operable Unit 1 (Landfills 8 and 10). The effluent sample was collected from the sample tap on the leachate system discharge line located in the meter building. In accordance with the monitoring requirements of the discharge permit specified in Table 4-15 of the Operable Unit 1 Operation and Maintenance Plan (Kelchner, 1997), the following parameters were analyzed: volatile organic compounds, metals, oil and grease, total suspended solids, chemical oxygen demand, and pH. Results of the analyses are presented in Table 1.

Please note that the WPAFB/EMO project manager has changed from Ms. Kim Ehret to Ms. Treva Bashore. If you have any questions or comments on any of the enclosed material, please call me at (513) 782-4823.

Thank you.

Sincerely,

Shaw Environmental, Inc.

  
Greg Plamondon  
Site Coordinator

cc: Ms. Treva Bashore, WPAFB/EMO Project Manager  
Joe Tyburski, Shaw Project Manager  
Shaw Project File



**Table 1**  
**Analytical Results – LF8 & LF10**  
**Leachate Discharge System Line**

Parameter	Compliance Criteria	July 2004 Results
pH		7.4
Total Suspended Solids (mg/L)	250	5.0
Chemical Oxygen Demand (mg/L)	368	37
Oil and Grease (mg/L)	--	ND <sup>a</sup>
Metals (mg/L)		
Arsenic	0.093	ND
Cadmium	0.032	ND
Chromium	2.494	ND
Copper	0.716	0.075
Lead	1.198	0.016
Mercury	0.047	ND
Molybdenum	0.108	ND
Nickel	1.501	ND
Selenium	0.238	ND
Zinc	2.200	0.11
Volatile Organic Compounds (µg/L)		
1,2-Dichloroethene (Total)	--	2.2
Benzene	--	0.26 J
Methylene chloride	--	ND
Toluene	--	ND

a = Not detected

J = Estimated concentration.



Shaw Environmental, Inc.

Shaw Environmental, Inc.

5050 Section Avenue  
Cincinnati, OH 45212-2025  
513.782.4700  
Fax: 513.782.4807

December 9, 2004

Mr. Frank Barosky  
Water Projects Coordinator  
Water Reclamation Center  
City of Fairborn  
44 West Hebble Avenue  
Fairborn, Ohio 45234

Re: Wright-Patterson Air Force Base Landfills 8 and 10 Leachate Discharge System Monitoring  
Analytical Results: October 2004; Contract No.: F33601-01-D-W002

Dear Mr. Barosky:

Per the Statement of Work for the Long-term Monitoring program being conducted at Wright-Patterson Air Force Base (WPAFB), Shaw Environmental, Inc. (Shaw) is providing the City of Fairborn with the analytical results from the October 21, 2004 sample collected from the leachate discharge system at Operable Unit 1 (Landfills 8 and 10). The effluent sample was collected from the sample tap on the leachate system discharge line located in the meter building. In accordance with the monitoring requirements of the discharge permit specified in Table 4-15 of the Operable Unit 1 Operation and Maintenance Plan (Kelchner, 1997), the following parameters were analyzed: volatile organic compounds, metals, oil and grease, total suspended solids, chemical oxygen demand, and pH. Results of the analyses are presented in Table 1.

If you have any questions or comments on any of the enclosed material, please call me at (513) 782-4970.

Thank you.

Sincerely,  
Shaw Environmental, Inc.

  
Joseph Tyburski  
Project Manager

cc: Ms. Treva Bashore, WPAFB/EMO Project Manager  
File (829564)

**Table 1**  
**Analytical Results – LF8 & LF10**  
**Leachate Discharge System Line**

Parameter	Compliance Criteria	October 2004 Results
pH	--	7.6
Total Suspended Solids (mg/L)	250	19
Chemical Oxygen Demand (mg/L)	368	30
Oil and Grease (mg/L)	--	ND <sup>a</sup>
<b>Metals (mg/L)</b>		
Arsenic	0.093	ND
Cadmium	0.032	ND
Chromium	2.494	ND
Copper	0.716	0.080
Lead	1.198	0.0051
Mercury	0.047	ND
Molybdenum	0.108	ND
Nickel	1.501	ND
Selenium	0.238	ND
Zinc	2.200	0.096
<b>Volatile Organic Compounds (µg/L)</b>		
1,2-Dichloroethene (Total)	--	7.59 J
Benzene	--	0.47 J
Methylene chloride	--	ND
Toluene	--	ND

a = Not detected

J = Estimated concentration.

## **Appendix D**

### **OU5 Water Level Monitoring Field Logs**

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms***

IT Personnel: Greg Plamondon

OU5 Monthly Water Levels for the LTM Program  
Wright-Patterson AFB, Ohio

Date: May 27, 2004

	Well No.	Location	Owner	TOC Elevation (ft, MSL)	Screened interval (ft)	Log Time (xxxx)	Well Secure (Y/N)	LEL Reading (%)	PID Reading (ppm)	Static Depth to Water		Comments
										TOC (ft)	TOPC (ft)	
1	08-020-M	WPAFB	WPAFB	791.10	11.0 - 21.0			Lost Log		Lost Log		
2	08-021-M	WPAFB	WPAFB	790.69	13.0 - 23.0							
3	08-022-M	WPAFB	WPAFB	796.00	26.0 - 36.0							
4	08-023-M	WPAFB	WPAFB	791.74	24.0 - 34.0							
5	08-523-M	WPAFB	WPAFB	790.61	5.5 - 15.5							
6	08-524-M	WPAFB	WPAFB	789.78	5.4 - 15.4							
7	08-525-M	WPAFB	WPAFB	791.84	6.0 - 16.5							
8	08-526-M	MCD	WPAFB	791.03	6.4 - 16.4							
9	08-527-M	MCD	WPAFB	789.13	6.0 - 16.0							
10	08-528-M	MCD	WPAFB	790.25	7.5 - 17.5							
11	CW04-060	WPAFB	WPAFB	792.08	49.7 - 59.7							
12	CW05-055	WPAFB	WPAFB	793.58	45.0 - 55.0							
13	CW05-085	WPAFB	WPAFB	793.86	75.0 - 85.0							
14	CW06-077	WPAFB	WPAFB	793.34	67.0 - 77.0							
15	CW07-055	WPAFB	WPAFB	791.89	44.5 - 54.5							
16	CW07-100	WPAFB	WPAFB	791.76	90 - 100							
17	CW08-017	WPAFB	WPAFB	792.79	7.3 - 17.3							
18	CW08-055	WPAFB	WPAFB	792.86	44.7 - 54.7							
19	CW08-110	WPAFB	WPAFB	791.39	100 - 110							
20	CW09-073	MCD	WPAFB	791.32	63 - 73							
21	CW10-055	MCD	WPAFB	792.30	45.0 - 55.0							River
22	CW12-085	WPAFB	WPAFB	789.98	75 - 85							
23	CW13-085	WPAFB	WPAFB	791.63	75 - 85							
24	CW15-055	MCD	WPAFB	792.09	45.0 - 55.0							River
25	CW21-040	WPAFB	WPAFB	795.31	30.0 - 40.0							
26	MW130S	MCD	Dayton	792.49	29 - 39	1057	Y	-	-	21.30		From City of Dayton
27	MW131M	MCD	Dayton	787.31	58.3 - 68.3	1050	Y	-	-	17.02		
28	MW131D	MCD	Dayton	788.32	105.4 - 115.4	1053	Y	-	-	17.90		
29	MW132S	MCD	Dayton	789.78	38.5 - 48.5	1041	Y	-	-	21.31		
30	MW133S	MCD	Dayton	789.66	43.4 - 53.4	1109	Y	-	-	20.44		
31	MW133D	MCD	Dayton	789.03	59.5 - 69.5	1113	Y	-	-	19.92		
32	HD-10D	MCD	Dayton	792.99	59.0 - 69.0	1005	Y	-	-	22.88	-	
33	HD-11D	MCD	Dayton	791.61	71.0 - 81.0	1012	Y	-	-	21.60	-	
34	HD-12S	MCD	Dayton	791.31	14.0 - 24.0	1025	Y	-	-	13 TOP	-	
35	HD-12M	MCD	Dayton	792.21	44.0 - 54.0	1028	Y	-	-	21.22	-	
36	HD-13D	MCD	Dayton	790.09	96-106	1019	Y	-	-	20.08	-	Mad Mon. 127
37	HD-13S	MCD	Dayton	789.30	22.5 - 32.5	1017	Y	-	-	Birds Nest		
38	HD-14S	MCD	Dayton	790.69	22.5 - 32.5	1036	Y	-	-	22.53		
39	TTW-01	WPAFB	WPAFB	791.46						Lost Log		
40	EW-1	WPAFB	WPAFB	810.42	9.5 - 73.5							Must climb tower

TOC = Top of casing  
TOPC = Top of protective casing

MCD = Miami Conservancy District

**OU5 Monthly Water Levels for the LTM Program  
Wright-Patterson AFB, Ohio**

Page 1 of 2

Shaw Personnel: Greg Plamondon

Date: 6/29/04

	Location	Owner	Well No.	Log Time (xxxx)	Well Secure (Y/N)	Static Depth to Water		LEL Reading (%)	PID Reading (ppm)	TOC Elevation (ft, MSL)	Screened Interval (ft)	Comments
						TOC (ft)	TOPC (ft)					
1	WPAFB	WPAFB	08-020-M			18.28				791.10	11 - 21	
2	WPAFB	WPAFB	08-021-M			18.70				790.69	13 - 23	
3	WPAFB	WPAFB	08-022-M	1327	Y	21.69				796.00	26 - 36	
4	WPAFB	WPAFB	08-023-M	1250	Y	10.40				791.74	24 - 34	
5	WPAFB	WPAFB	08-523-M			Day				790.61	5.5 - 15.5	
6	WPAFB	WPAFB	08-524-M			11.22				789.78	5.4 - 15.4	
7	WPAFB	WPAFB	08-525-M			15.44				791.84	6.0 - 16.5	
8	MCD	WPAFB	08-526-M			Day				791.03	6.4 - 16.4	
9	MCD	WPAFB	08-527-M			Day				789.13	6.0 - 16	
10	MCD	WPAFB	08-528-M	1045	Y	18.09				790.25	7.5 - 17.5	
11	WPAFB	WPAFB	CW04-060			20.15				792.08	49.7 - 59.7	
12	WPAFB	WPAFB	CW05-055			21.77				793.58	45 - 55	
13	WPAFB	WPAFB	CW05-085			22.65				793.86	75 - 85	
14	WPAFB	WPAFB	CW06-077			20.42				793.34	67 - 77	
15	WPAFB	WPAFB	CW07-055			18.49				791.89	44.5 - 54.5	
16	WPAFB	WPAFB	CW07-100			14.01				791.76	90 - 100	
17	WPAFB	WPAFB	CW08-017			15.83				792.79	7.3 - 17.3	
18	WPAFB	WPAFB	CW08-055			13.67				792.86	44.7 - 54.7	
19	WPAFB	WPAFB	CW08-110			12.57				791.39	100 - 110	
20	MCD	WPAFB	CW09-073		Y	20.02				791.32	63 - 73	
21	MCD	WPAFB	CW10-055		Y	22.58				792.30	45 - 55	River
22	WPAFB	WPAFB	CW12-085			9.78				789.98	75 - 85	By 08-523
23	WPAFB	WPAFB	CW13-085	1252	Y	9.58				791.63	75 - 85	By 08-023
24	MCD	WPAFB	CW15-055			20.71				792.09	45 - 55	River
25	WPAFB	WPAFB	CW21-040			12.07				795.31	30 - 40	
26	WPAFB	WPAFB	CW22-018	1300	Y	17.70				793.80	8.0 - 18	
27	WPAFB	WPAFB	P17-1	1318	Y	10.30				792.47	4.1 - 9.4	SE End of Gravel Lake

**OU5 Monthly Water Levels for the LTM Program**  
**Wright-Patterson AFB, Ohio**  
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Shaw Personnel: \_\_\_\_\_

Date: 6/29/08

	Location	Owner	Well No.	Log Time (xxxx)	Well Secure (Y/N)	Static Depth to Water		LEL Reading (%)	PID Reading (ppm)	TOC Elevation (ft, MSL)	Screened Interval (ft)	Comments
						TOC (ft)	TOPC (ft)					
28	MCD	Dayton	MW130S			19.31				792.49	29 - 39	
29	MCD	Dayton	MW131M			15.04				787.31	58.3 - 68.3	
30	MCD	Dayton	MW131D			15.91				788.32	105 - 115	
31	MCD	Dayton	MW132S			19.20				789.78	38.5 - 48.5	
32	MCD	Dayton	MW133S			18.31				789.66	43.4 - 53.4	
33	MCD	Dayton	MW133D			12.80				789.03	59.5 - 69.5	
34	MCD	Dayton	HD-10D	1010	Y	20.97				792.99	59 - 69	
35	MCD	Dayton	HD-11D			19.61				791.61	71 - 81	
36	MCD	Dayton	HD-12S			—				791.31	14 - 24	B TOP
37	MCD	Dayton	HD-12M			19.26				792.21	44 - 54	
38	MCD	Dayton	HD-13S			—				789.30	22.5 - 32.5	Birds Nest
39	MCD	Dayton	HD-13D			18.68				790.09	96 - 106	Mad Mon. 127
40	MCD	Dayton	HD-14S			20.41				790.69	22.5 - 32.5	
41	WPAFB	WPAFB	TTW-01			20.00				791.46	45 - 65	
42	WPAFB	WPAFB	EW-1			38.70				810.42	9.5 - 73.5	Must climb tower
43	E. Twin Lake	WPAFB	PZ-1			14.77				789.77	14 - 24	
44	W. Twin Lake	WPAFB	PZ-2			12.00				790.33	13 - 28	
45	E. Twin Lake	WPAFB	PZ-3	1352	Y	14.70				790.05	14 - 24	
46	Gravel Lake	WPAFB	PZ-4			7.98				792.87	5.0 - 10	
47	Gravel Lake	WPAFB	PZ-5			5.52				790.66	2.0 - 7.0	In Wetland Area

TOC = Top of casing  
 TOPC = Top of protective casing

MCD = Miami Conservancy District  
 PZ = Piezometer



**OU5 Monthly Water Levels for the LTM Program**  
**Wright-Patterson AFB, Ohio**  
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Shaw Personnel: GP

Date: 7/29/04

	Location	Owner	Well No.	Log Time (xxxx)	Well Secure (Y/N)	Static Depth to Water		LEL Reading (%)	PID Reading (ppm)	TOC Elevation (ft, MSL)	Screened Interval (ft)	Comments
						TOC (ft)	TOPC (ft)					
28	MCD	Dayton	MW130S	1110	Y	21.01				792.49	29 - 39	
29	MCD	Dayton	MW131M	1100	Y	16.86				787.31	58.3 - 68.3	
30	MCD	Dayton	MW131D	1103	Y	17.71				788.32	105 - 115	
31	MCD	Dayton	MW132S	1052	Y	21.07				789.78	38.5 - 48.5	
32	MCD	Dayton	MW133S	1005	Y	20.19				789.66	43.4 - 53.4	
33	MCD	Dayton	MW133D	1008	Y	19.65				789.03	59.5 - 69.5	
34	MCD	Dayton	HD-10D	1015	Y	22.77				792.99	59 - 69	
35	MCD	Dayton	HD-11D	1028	Y	21.39				791.61	71 - 81	
36	MCD	Dayton	HD-12S	1035	Y	BTOP				791.31	14 - 24	
37	MCD	Dayton	HD-12M	1038	Y	21.00				792.21	44 - 54	
38	MCD	Dayton	HD-13S	1025	Y	19.07				789.30	22.5 - 32.5	
39	MCD	Dayton	HD-13D	1021	Y	19.94				790.09	96 - 106	Mad Mon. 127
40	MCD	Dayton	HD-14S	1045	Y	22.27				790.69	22.5 - 32.5	
41	WPAFB	WPAFB	TTW-01	1435	Y	21.14				791.46	45 - 65	
42	WPAFB	WPAFB	EW-1	1441	Y	39.60				810.42	9.5 - 73.5	Must climb tower
43	E. Twin Lake	WPAFB	PZ-1	1424	N	15.98				789.77	14 - 24	
44	W. Twin Lake	WPAFB	PZ-2	1427	N	18.30				790.33	13 - 28	
45	E. Twin Lake	WPAFB	PZ-3	1421	N	15.76				790.05	14 - 24	
46	Gravel Lake	WPAFB	PZ-4	1407	N	8.34		—	—	792.87	5.0 - 10	
47	Gravel Lake	WPAFB	PZ-5	1410	N	5.87				790.66	2.0 - 7.0	In Wetland Area

TOC = Top of casing  
 TOPC = Top of protective casing

MCD = Miami Conservancy District  
 PZ = Piezometer

**OU5 Monthly Water Levels for the LTM Program  
Wright-Patterson AFB, Ohio**

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Shaw Personnel: Greg Diamond

Date: July 29, 2004

	Location	Owner	Well No.	Log Time (xxxx)	Well Secure (Y/N)	Static Depth to Water		LEL Reading (%)	PID Reading (ppm)	TOC Elevation (ft, MSL)	Screened Interval (ft)	Comments
						TOC (ft)	TOPC (ft)					
1	WPAFB	WPAFB	08-020-M	1455	Y	19.44				791.10	11 - 21	
2	WPAFB	WPAFB	08-021-M	1450	Y	19.92				790.69	13 - 23	
3	WPAFB	WPAFB	08-022-M	1419	Y	22.82				796.00	26 - 36	
4	WPAFB	WPAFB	08-023-M	1351	Y	10.78				791.74	24 - 34	
5	WPAFB	WPAFB	08-523-M	1340	Y	Dry				790.61	5.5 - 15.5	
6	WPAFB	WPAFB	08-524-M	1512	Y	12.00				789.78	5.4 - 15.4	
7	WPAFB	WPAFB	08-525-M	1511	Y	16.27				791.84	6.0 - 16.5	
8	MCD	WPAFB	08-526-M	1055	Y	Dry				791.03	6.4 - 16.4	
9	MCD	WPAFB	08-527-M	1057	Y	Dry				789.13	6.0 - 16	
10	MCD	WPAFB	08-528-M	1058	Y	Dry				790.25	7.5 - 17.5	
11	WPAFB	WPAFB	CW04-060	1430	Y	21.45				792.08	49.7 - 59.7	
12	WPAFB	WPAFB	CW05-055	1445	Y	22.90				793.58	45 - 55	
13	WPAFB	WPAFB	CW05-085	1448	Y	—				793.86	75 - 85	Baby Birds
14	WPAFB	WPAFB	CW06-077	1500	Y	21.56				793.34	67 - 77	
15	WPAFB	WPAFB	CW07-055	1502	Y	19.11				791.89	44.5 - 54.5	
16	WPAFB	WPAFB	CW07-100	1504	Y	14.16				791.76	90 - 100	
17	WPAFB	WPAFB	CW08-017	1526	Y	16.70				792.79	7.3 - 17.3	
18	WPAFB	WPAFB	CW08-055	1522	Y	13.87				792.86	44.7 - 54.7	
19	WPAFB	WPAFB	CW08-110	1520	Y	12.71				791.39	100 - 110	
20	MCD	WPAFB	CW09-073	0917	Y	21.82		—	1	791.32	63 - 73	
21	MCD	WPAFB	CW10-055	0905	Y	24.45		—	1	792.30	45 - 55	River
22	WPAFB	WPAFB	CW12-085	1337	Y	10.11				789.98	75 - 85	By 08-523
23	WPAFB	WPAFB	CW13-085	1345	N	20.88	9.88			791.63	75 - 85	By 08-023
24	MCD	WPAFB	CW15-055	09012	Y	22.57		—	1	792.09	45 - 55	River
25	WPAFB	WPAFB	CW21-040	1400	Y	17.71				795.31	30 - 40	
26	WPAFB	WPAFB	CW22-018	1405	Y	18.23				793.80	8.0 - 18	
27	WPAFB	WPAFB	P17-1	1414	Y	10.45				792.47	4.1 - 9.4	SE End of Gravel Lake

**OU5 Monthly Water Levels for the LTM Program  
Wright-Patterson AFB, Ohio**

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Date: 8/31/04

Shaw Personnel: G. PLAMONDON  
B. UHL

	Location	Owner	Well No.	Log Time (xxxx)	Well Secure (Y/N)	Static Depth to Water		LEL Reading (%)	PID Reading (ppm)	TOC Elevation (ft, MSL)	Screened Interval (ft)	Comments
						TOC (ft)	TOPC (ft)					
1	WPAFB	WPAFB	08-020-M	1320	Y	19.59				791.10	11 - 21	
2	WPAFB	WPAFB	08-021-M	1310	Y	20.03				790.69	13 - 23	
3	WPAFB	WPAFB	08-022-M	1303	Y	23.16				796.00	26 - 36	
4	WPAFB	WPAFB	08-023-M	1244	Y	11.06				791.74	24 - 34	
5	WPAFB	WPAFB	08-523-M	~	Y	Dry				790.61	5.5 - 15.5	
6	WPAFB	WPAFB	08-524-M	1330	Y	12.40				789.78	5.4 - 15.4	
7	WPAFB	WPAFB	08-525-M	1326	Y	16.55				791.84	6.0 - 16.5	
8	MCD	WPAFB	08-526-M	1105	Y	Dry				791.03	6.4 - 16.4	
9	MCD	WPAFB	08-527-M	1110	Y	Dry				789.13	6.0 - 16	
10	MCD	WPAFB	08-528-M	1100	Y	Dry				790.25	7.5 - 17.5	
11	WPAFB	WPAFB	CW04-060	1307	Y	21.79				792.08	49.7 - 59.7	
12	WPAFB	WPAFB	CW05-055	1313	Y	22.65				793.58	45 - 55	
13	WPAFB	WPAFB	CW05-085	1315	Y	22.91				793.86	75 - 85	
14	WPAFB	WPAFB	CW06-077	1321	Y	21.66				793.34	67 - 77	
15	WPAFB	WPAFB	CW07-055	1324	Y	19.38				791.89	44.5 - 54.5	
16	WPAFB	WPAFB	CW07-100	1326	Y	14.37				791.76	90 - 100	
17	WPAFB	WPAFB	CW08-017	1340	Y	17.03				792.79	7.3 - 17.3	
18	WPAFB	WPAFB	CW08-055	1336	Y	14.06				792.86	44.7 - 54.7	
19	WPAFB	WPAFB	CW08-110	1334	Y	12.90				791.39	100 - 110	
20	MCD	WPAFB	CW09-073	1057	Y	22.04				791.32	63 - 73	
21	MCD	WPAFB	CW10-055	1121	Y	24.69				792.30	45 - 55	River
22	WPAFB	WPAFB	CW12-085	1239	Y	10.35				789.98	75 - 85	By 08-523
23	WPAFB	WPAFB	CW13-085	1243	Y	10.15				791.63	75 - 85	By 08-023
24	MCD	WPAFB	CW15-055	1108	Y	22.80				792.09	45 - 55	River
25	WPAFB	WPAFB	CW21-040	1241	Y	18.03				795.31	30 - 40	
26	WPAFB	WPAFB	CW22-018	1248	Y	18.50				793.80	8.0 - 18	
27	WPAFB	WPAFB	P17-1	1255	Y	10.65				792.47	4.1 - 9.4	SE End of Gravel Lake

OU5 Monthly Water Levels for the LTM Program  
Wright-Patterson AFB, Ohio  
Page 2 of 2

Shaw Personnel: Greg Plamondon  
Ben Ahl

Date: 8/31/04

	Location	Owner	Well No.	Log Time (xxxx)	Well Secure (Y/N)	Static Depth to Water.		LEL Reading (%)	PID Reading (ppm)	TOC Elevation (ft, MSL)	Screened Interval (ft)	Comments
						TOC (ft)	TOPC (ft)					
28	MCD	Dayton	MW130S	1043	Y	21.15				792.49	29 - 39	
29	MCD	Dayton	MW131M	1040	Y	17.01				787.31	58.3 - 68.3	
30	MCD	Dayton	MW131D	1038	Y	17.90				788.32	105 - 115	
31	MCD	Dayton	MW132S	1033	Y	21.32				789.78	38.5 - 48.5	
32	MCD	Dayton	MW133S	1006	Y	20.48				789.66	43.4 - 53.4	
33	MCD	Dayton	MW133D	1008	Y	19.97				789.03	59.5 - 69.5	
34	MCD	Dayton	HD-10D	1012	Y	23.20				792.99	59 - 69	
35	MCD	Dayton	HD-11D	1022	Y	21.20				791.61	71 - 81	
36	MCD	Dayton	HD-12S	1026	Y	21.15	NDP			791.31	14 - 24	
37	MCD	Dayton	HD-12M	1024	Y	BTOP				792.21	44 - 54	
38	MCD	Dayton	HD-13S	1016	Y	19.30				789.30	22.5 - 32.5	
39	MCD	Dayton	HD-13D	1020	Y	20.15				790.09	96 - 106	Mad Mon. 127
40	MCD	Dayton	HD-14S	1030	Y	22.55				790.69	22.5 - 32.5	
41	WPAFB	WPAFB	TTW-01	1308	Y	20.04				791.46	45 - 65	
42	WPAFB	WPAFB	EW-1	1420	Y	33.48	39.48			810.42	9.5 - 73.5	Must climb tower
43	E. Twin Lake	WPAFB	PZ-1	1304	N	18.36				789.77	14 - 24	
44	W. Twin Lake	WPAFB	PZ-2	1305	N	18.74				790.33	13 - 28	
45	E. Twin Lake	WPAFB	PZ-3	1300	N	16.19				790.05	14 - 24	
46	Gravel Lake	WPAFB	PZ-4	1250	N	8.60				792.87	5.0 - 10	
47	Gravel Lake	WPAFB	PZ-5	1253	N	6.12				790.66	2.0 - 7.0	In Wetland Area

TOC = Top of casing  
TOPC = Top of protective casing

MCD = Miami Conservancy District  
PZ = Piezometer

Don-  
SPH-10/14

OU5 Monthly Water Levels for the LTM Program  
Wright-Patterson AFB, Ohio

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Shaw Personnel: Greg Plamondon

Date: 9/30/04

	Location	Owner	Well No.	Log Time (xxxx)	Well Secure (Y/N)	Static Depth to Water		LEL Reading (%)	PID Reading (ppm)	TOC Elevation (ft, MSL)	Screened Interval (ft)	Comments
						TOC (ft)	TOPC (ft)					
1	WPAFB	WPAFB	08-020-M	1153	Y	19.76				791.10	11 - 21	
2	WPAFB	WPAFB	08-021-M	1148	Y	20.28				790.69	13 - 23	
3	WPAFB	WPAFB	08-022-M	0945	Y	23.07				796.00	26 - 36	
4	WPAFB	WPAFB	08-023-M	0927	Y	10.28				791.74	24 - 34	
5	WPAFB	WPAFB	08-523-M	0924	Y	Dry				790.61	5.5 - 15.5	
6	WPAFB	WPAFB	08-524-M	1214	Y	12.31				789.78	5.4 - 15.4	
7	WPAFB	WPAFB	08-525-M	1210	Y	16.83				791.84	6.0 - 16.5	
8	MCD	WPAFB	08-526-M	1158	Y	Dry				791.03	6.4 - 16.4	
9	MCD	WPAFB	08-527-M	1115	Y	Dry				789.13	6.0 - 16	
10	MCD	WPAFB	08-528-M	1110	Y	Dry				790.25	7.5 - 17.5	
11	WPAFB	WPAFB	CW04-060	1143	Y	21.51				792.08	49.7 - 59.7	
12	WPAFB	WPAFB	CW05-055	1150	Y	23.62				793.58	45 - 55	
13	WPAFB	WPAFB	CW05-085	1151	Y	24.07				793.86	75 - 85	
14	WPAFB	WPAFB	CW06-077	1154	Y	21.88				793.34	67 - 77	
15	WPAFB	WPAFB	CW07-055	1201	Y	19.84				791.89	44.5 - 54.5	
16	WPAFB	WPAFB	CW07-100	1204	Y	15.71				791.76	90 - 100	
17	WPAFB	WPAFB	CW08-017	1211	Y	17.04				792.79	7.3 - 17.3	
18	WPAFB	WPAFB	CW08-055	1208	Y	15.24				792.86	44.7 - 54.7	
19	WPAFB	WPAFB	CW08-110	1220	Y	14.39				791.39	100 - 110	
20	MCD	WPAFB	CW09-073	1054	Y	21.86				791.32	63 - 73	
21	MCD	WPAFB	CW10-055	1118	Y	24.34				792.30	45 - 55	River
22	WPAFB	WPAFB	CW12-085	0923	Y	11.03				789.98	75 - 85	By 08-523
23	WPAFB	WPAFB	CW13-085	0928	Y	11.28				791.63	75 - 85	By 08-023
24	MCD	WPAFB	CW15-055	1113	Y	22.53				792.09	45 - 55	River
25	WPAFB	WPAFB	CW21-040	0930	Y	18.11				795.31	30 - 40	
26	WPAFB	WPAFB	CW22-018	0935	Y	18.56				793.80	8.0 - 18	
27	WPAFB	WPAFB	P17-1	0937	N	10.90				792.47	4.1 - 9.4	SE End of Gravel Lake

OU5 Monthly Water Levels for the LTM Program  
Wright-Patterson AFB, Ohio  
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Shaw Personnel: Greg Plamondon  
Kyle Havens

Date: 9/30/09

	Location	Owner	Well No.	Log Time (xxxx)	Well Secure (Y/N)	Static Depth to Water		LEL Reading (%)	PID Reading (ppm)	TOC Elevation (ft, MSL)	Screened Interval (ft)	Comments
						TOC (ft)	TOPC (ft)					
28	MCD	Dayton	MW130S	1046	Y	21.11				792.49	29 - 39	
29	MCD	Dayton	MW131M	1041	Y	17.04				787.31	58.3 - 68.3	
30	MCD	Dayton	MW131D	1043	Y	17.88				788.32	105 - 115	
31	MCD	Dayton	MW132S	1036	Y	21.02				789.78	38.5 - 48.5	
32	MCD	Dayton	MW133S	1009	Y	20.06				789.66	43.4 - 53.4	
33	MCD	Dayton	MW133D	1010	Y	19.57				789.03	59.5 - 69.5	
34	MCD	Dayton	HD-10D	1015	Y	22.81				792.99	59 - 69	
35	MCD	Dayton	HD-11D	1022	Y	21.68				791.61	71 - 81	
36	MCD	Dayton	HD-12S	1025	Y	13 TOP				791.31	14 - 24	
37	MCD	Dayton	HD-12M	1026	Y	21.30				792.21	44 - 54	
38	MCD	Dayton	HD-13S	1020	Y	20.06	19.21			789.30	22.5 - 32.5	
39	MCD	Dayton	HD-13D	1018	Y	19.21	20.06			790.09	96 - 106	Mad Mon. 127
40	MCD	Dayton	HD-14S	1034	Y	22.14				790.69	22.5 - 32.5	
41	WPAFB	WPAFB	TTW-01	1145	Y	21.67				791.46	45 - 65	
42	WPAFB	WPAFB	EW-1	1154	Y	42.26				810.42	9.5 - 73.5	Must climb tower
43	E. Twin Lake	WPAFB	PZ-1	1142	N	16.16				789.77	14 - 24	
44	W. Twin Lake	WPAFB	PZ-2		N	18.33				790.33	13 - 28	
45	E. Twin Lake	WPAFB	PZ-3	1140	N	15.96				790.05	14 - 24	
46	Gravel Lake	WPAFB	PZ-4		N	8.71				792.87	5.0 - 10	
47	Gravel Lake	WPAFB	PZ-5		N	6.22				790.66	2.0 - 7.0	In Wetland Area

TOC = Top of casing  
TOPC = Top of protective casing

MCD = Miami Conservancy District  
PZ = Piezometer

**OU5 Monthly Water Levels for the LTM Program**  
**Wright-Patterson AFB, Ohio**

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Shaw Personnel: Grey Plamondon

Date: 10/27/04

	Location	Owner	Well No.	Log Time (xxxx)	Well Secure (Y/N)	Static Depth to Water		LEL Reading (%)	PID Reading (ppm)	TOC Elevation (ft, MSL)	Screened Interval (ft)	Comments
						TOC (ft)	TOPC (ft)					
1	WPAFB	WPAFB	08-020-M	1356	Y	19.12				791.10	11 - 21	
2	WPAFB	WPAFB	08-021-M	1338	Y	19.67				790.69	13 - 23	
3	WPAFB	WPAFB	08-022-M	1330	Y	22.65				796.00	26 - 36	
4	WPAFB	WPAFB	08-023-M	1311	Y	10.81				791.74	24 - 34	
5	WPAFB	WPAFB	08-523-M	1305	Y	Dry				790.61	5.5 - 15.5	
6	WPAFB	WPAFB	08-524-M	1415	Y	11.95				789.78	5.4 - 15.4	
7	WPAFB	WPAFB	08-525-M	1410	Y	16.21				791.84	6.0 - 16.5	
8	MCD	WPAFB	08-526-M	1051	Y	Dry				791.03	6.4 - 16.4	
9	MCD	WPAFB	08-527-M	1055	Y	Dry				789.13	6.0 - 16	
10	MCD	WPAFB	08-528-M	1106	Y	Dry				790.25	7.5 - 17.5	
11	WPAFB	WPAFB	CW04-060	1353	Y	21.05				792.08	49.7 - 59.7	
12	WPAFB	WPAFB	CW05-055	1340	Y	22.89				793.58	45 - 55	
13	WPAFB	WPAFB	CW05-085	1342	Y	23.31				793.86	75 - 85	
14	WPAFB	WPAFB	CW06-077	1400	Y	21.24				793.34	67 - 77	
15	WPAFB	WPAFB	CW07-055	1405	Y	19.20				791.89	44.5 - 54.5	
16	WPAFB	WPAFB	CW07-100	1407	Y	15.10				791.76	90 - 100	
17	WPAFB	WPAFB	CW08-017	1427	Y	16.64				792.79	7.3 - 17.3	
18	WPAFB	WPAFB	CW08-055	1423	Y	14.67				792.86	44.7 - 54.7	
19	WPAFB	WPAFB	CW08-110	1420	Y	13.77				791.39	100 - 110	
20	MCD	WPAFB	CW09-073		Y	21.11				791.32	63 - 73	
21	MCD	WPAFB	CW10-055		Y	23.50				792.30	45 - 55	River
22	WPAFB	WPAFB	CW12-085	1300	Y	10.40				789.98	75 - 85	By 08-523
23	WPAFB	WPAFB	CW13-085	1310	Y	9.97				791.63	75 - 85	By 08-023
24	MCD	WPAFB	CW15-055		Y	21.70				792.09	45 - 55	River
25	WPAFB	WPAFB	CW21-040	1315		17.65				795.31	30 - 40	
26	WPAFB	WPAFB	CW22-018	1319	Y	18.21				793.80	8.0 - 18	
27	WPAFB	WPAFB	P17-1	1326	Y	10.43				792.47	4.1 - 9.4	SE End of Gravel Lake



**OU5 Monthly Water Levels for the LTM Program**  
**Wright-Patterson AFB, Ohio**  
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Shaw Personnel: Greg Plamondon

Date: 10/27/04

	Location	Owner	Well No.	Log Time (xxxx)	Well Secure (Y/N)	Static Depth to Water		LEL Reading (%)	PID Reading (ppm)	TOC Elevation (ft, MSL)	Screened Interval (ft)	Comments
						TOC (ft)	TOPC (ft)					
28	MCD	Dayton	MW130S			20.40				792.49	29 - 39	
29	MCD	Dayton	MW131M			16.41				787.31	58.3 - 68.3	
30	MCD	Dayton	MW131D			17.24				788.32	105 - 115	
31	MCD	Dayton	MW132S			20.30				789.78	38.5 - 48.5	
32	MCD	Dayton	MW133S	1005		19.47				789.66	43.4 - 53.4	
33	MCD	Dayton	MW133D	1007		18.98				789.03	59.5 - 69.5	
34	MCD	Dayton	HD-10D			22.34				792.99	59 - 69	
35	MCD	Dayton	HD-11D			21.02				791.61	71 - 81	
36	MCD	Dayton	HD-12S			BTOR				791.31	14 - 24	
37	MCD	Dayton	HD-12M			20.67				792.21	44 - 54	
38	MCD	Dayton	HD-13S			19.51				789.30	22.5 - 32.5	
39	MCD	Dayton	HD-13D			18.67				790.09	96 - 106	Mad Mon. 127
40	MCD	Dayton	HD-14S			21.49				790.69	22.5 - 32.5	
41	WPAFB	WPAFB	TTW-01	1338	X	20.98				791.46	45 - 65	
42	WPAFB	WPAFB	EW-1		Y	41.09				810.42	9.5 - 73.5	Must climb tower
43	E. Twin Lake	WPAFB	PZ-1	1335	N	15.74				789.77	14 - 24	
44	W. Twin Lake	WPAFB	PZ-2	1337	N	17.92				790.33	13 - 28	
45	E. Twin Lake	WPAFB	PZ-3	1330	N	15.59				790.05	14 - 24	
46	Gravel Lake	WPAFB	PZ-4	1320	N	8.32				792.87	5.0 - 10	
47	Gravel Lake	WPAFB	PZ-5	1324	N	5.85				790.66	2.0 - 7.0	In Wetland Area

TOC = Top of casing  
 TOPC = Top of protective casing

MCD = Miami Conservancy District  
 PZ = Piezometer

## **Appendix E**

### **OU4 Soil Gas Monitoring Field Logs**

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms***

## Attachment 2

### OU4 - Landfill 6 and 7 Soil Gas Monitoring Log

Date: 7/26/04 Temp: \_\_\_\_\_

Meter Model: GEM 90

Atmospheric Pressure: 29.3

Cal. Gas Type: 50% CH<sub>4</sub> 35% CO<sub>2</sub> 4% O<sub>2</sub> Exp. Date: \_\_\_\_\_

Samplers: KH

**Gas Conc.:**

Methane: 50.1% Meter Reading: \_\_\_\_\_

CO<sub>2</sub>: NA Meter Reading: \_\_\_\_\_

N<sub>2</sub>: NA Meter Reading: \_\_\_\_\_

NA

Location	Purge Start Time	Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	CH <sub>4</sub> %	LEL%	Comments
LG-1	1334	1335	NA	19.1	0	0	
LG-2	1320	1321		19.2	0	0	
LG-3	1324	1325		19.1	0	0	
LG-6	1315	1317		19.1	0	0	
LG-7	1310	1311		19.1	0	0	
LG-8	1340	1341		19.2	0	0	
LG-9	1345	1347		19.1	0	0	
LG-10	1351	1352		19.2	0	0	
Bldg 878A SE	1355	1356		19.1	0	0	Inside bldg.
Bldg 878A NW	1357	1358	✓	19.1	0	0	Inside bldg.

**Notes:**

1. Calibration gas required: Methane, CO<sub>2</sub>, and N<sub>2</sub> mixture
2. Regulator required: 0.5 L per minute
3. Tubing type: Tygon
4. For access to Buildings 877 and 878 check in at west end of Building 876.

\* CO<sub>2</sub> OUT OF CALIBRATION  
READINGS UNAVAILABLE

## Attachment 2

### OU4 - Landfill 6 and 7 Soil Gas Monitoring Log

Date: 9/30/04 Temp: 73°F

Meter Model: Land Tec

Atmospheric Pressure: 29.4

Cal. Gas Type: \_\_\_\_\_, Exp. Date: \_\_\_\_\_

Samplers: Greg Plamenon  
Kyle Havens

**Gas Conc.:**

Methane: \_\_\_\_\_ Meter Reading: \_\_\_\_\_

CO<sub>2</sub>: \_\_\_\_\_ Meter Reading: \_\_\_\_\_

N<sub>2</sub>: \_\_\_\_\_ Meter Reading: \_\_\_\_\_

NA

Location	Purge Start Time	Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	CH <sub>4</sub> %	LEL%	Comments
LG-1	1420	1422	5.3 <del>6.7</del>	16.8	0	0	
LG-2	1430	1432	6.0	14.0	0	0	
LG-3	1438	1440	3.7	17.5	0	0	
LG-6	1336	1338	5.2	15.5	0	0	
LG-7	1330	1332	1.2	19.2	0	0	
LG-8	1344	1346	1.4	18.4	0	0	
LG-9	1351	1353	3.1	14.2	0	0	
LG-10	1359	1403	7.5	1.5	2.2	44	
Bldg 878A SE	1405	1409	0 (L) <del>79.2</del>	19.2 (L) <del>0</del>	0	0	Inside bldg.
Bldg 878A NW	1412	1414	0 (L) <del>79.2</del>	19.2 (L) <del>0</del>	0	0	Inside bldg.

**Notes:**

1. Calibration gas required: Methane, CO<sub>2</sub>, and N<sub>2</sub> mixture
2. Regulator required: 0.5 L per minute
3. Tubing type: Tygon
4. For access to Buildings 877 and 878 check in at west end of Building 876.

## **Appendix F**

### **OU2 Field Forms**

- F1**    OU2 Groundwater Purge Logs and  
Groundwater and Soil Gas Sample Collection Forms
- F2**    OU2 Chain of Custody Records
- F3**    OU2 Water Level Field Log

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms***

**F1**

**OU2 Groundwater Purge Logs  
and  
Groundwater and Soil Gas Sample Collection Forms**

4

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU2 - ROD WELL ID: 04-016-M SAMPLE NUMBER: TH 30045  
 Samplers: JP/SW Well Secure (Y/N) Y Well Casing Diameter: 4 in.  
 Purging Method / Equipment: Micropurge/ bladder Target Purge Volume: 2 gal. Ferrous Iron: > 13.2 mg/L  
 Sounding (Depth to Well Bottom): 28 ft. Static Water Level (Depth to Water): 8.83 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/7/04	1500		8.91	init	18.32	6.86	0.919	20.0	-170	3.12	clear
	1505		8.89	0.5	17.32	6.78	0.927	0	-183	0.55	
	1510		8.85	0.9	17.41	6.77	0.929	0	-185	0.50	
	1515		8.84	1.2	17.34	6.77	0.925	0	-186	0.37	
	1520		8.84	1.6	16.25	6.78	0.925	8.2	-187	0.30	
	1525		8.88	2.2	16.12	6.78	0.922	5.5	-187	0.27	
	1530		8.88	2.4	16.02	6.79	0.921	6.8	-188	0.25	
	1535		8.88	2.8	16.14	6.79	0.919	0.8	-188	0.25	
	1537	Collect sample									
	1545		8.88	Anal	16.65	6.77	0.939	0	-156	3.71	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/7/04 Sample Collection Time: 1537 Prepared by: SWH



# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: OU2 - ROD WELL ID: NEA - MW20-2S SAMPLE NUMBER: TH 30048

Samplers: McMullen/Burn Well Secure (Y/N) Y Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/Bladder Pump Target Purge Volume: 2 gal. Ferrous Iron: 2.68 mg/L

Sounding (Depth to Well Bottom): 20 ft. Static Water Level (Depth to Water): 9.83 - no measurable product layer detected

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) <i>mS/cm</i>	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/07/04	1030		9.95	Initial	17.71	6.95	0.979	12.9	-111	1.78	fuel odor
	1035		9.96	0.3	17.88	6.88	0.950	20.1	-121	3.45	black floaties
	1040		9.96	0.7	17.99	6.90	0.919	10.1	-129	7.38	Fuel odor
	1045		9.96	1.3	18.08	6.95	0.872	0.0	-146	7.78	sheen on water
	1050		9.96	1.8	18.13	7.00	0.856	5.4	-158	7.88	in bucket
	1055		9.96	2.1	18.24	7.02	0.853	3.7	-164	8.17	
	1100		9.96	2.5	18.24	7.03	0.850	2.3	-167	5.73	
	1105		9.96	2.9	18.25	7.03	0.850	2.7	-168	8.41	
	1108		sample								
	1121		9.96	Final	18.34	7.03	0.550	5.1	-141	1.85	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: TH 30047 MS/MSD: Split:

Sample Collection Date: 10/07/04 Sample Collection Time: 1108 Prepared by: McMullen

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: OU2 - ROD WELL ID: NEA-MW21-3S SAMPLE NUMBER: TH 30050  
Samplers: KH, BF Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
Purging Method / Equipment: Micropurge/ PERISTALTIC PUMP Target Purge Volume: 2 gal. Ferrous Iron: 1.01 x 2 = 2.02 mg/L  
Sounding (Depth to Well Bottom): 21.0 ft. Static Water Level (Depth to Water): 12.16 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/7/04	1000	1.07	11.19	0.50							
	1005	0.02	11.19	0.60	18.31	7.12	0.802	15.4	-136	1.91	"
	1010	0.04	11.19	0.80	18.49	7.13	0.794	6.1	-136	1.56	"
	1015	0.03	11.19	0.95	18.49	7.16	0.788	6.7	-142	1.75	"
	1020	0.07	11.19	1.30	18.57	7.17	0.784	11.0	-144	0.97	INCREASED PUMP RATE
	1025	0.05	11.19	1.55	18.72	7.18	0.782	9.0	-146	0.86	SCANNED PUMP RATE SENSITIVITY
	1030	0.04	11.19	1.75	18.71	7.19	0.782	9.5	-148	0.82	CLEAR
	1035	0.05	11.19	2.00	18.81	7.19	0.781	7.8	-149	0.77	"
	1040	0.04	11.19	2.20	18.80	7.19	0.782	6.0	-148	0.76	"
	1045	0.04	11.19	2.40	18.75	7.19	0.781	7.9	-149	0.50	"
	1047	SAMPLE									
	1049	FINAL	11.19	FINAL	18.76	7.20	0.780	5.5	-150	1.22	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable  
QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_  
Sample Collection Date: 10/7/04 Sample Collection Time: 1047 Prepared by: KYLE HARRIS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: OU2 - ROD WELL ID: NEA-MW26-3S SAMPLE NUMBER: TH 30051  
 Samplers: JP/SW Well Secure (Y/N) X Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ bladder Target Purge Volume: 2 gal. Ferrous Iron: 1.81 mg/L  
 Sounding (Depth to Well Bottom): 22 ft. Static Water Level (Depth to Water): 12.80 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) <i>ms/cm</i>	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/7/04	1055		12.88	init	19.52	6.52	0.922	0	143	7.73	clear
	1100		12.87	0.4	19.09	6.61	0.952	1.9	-111	6.62	
	1105		12.87	1.0	19.08	6.69	0.946	0	-133	0.74	
	1110		12.87	1.5	19.37	6.78	0.915	0	-152	0.51	
	1115		12.86	1.9	19.34	6.84	0.902	0	-170	0.40	
	1120		12.86	2.2	19.37	6.91	0.888	0	-205	0.42	
	1125		12.87	2.5	19.41	6.95	0.883	0	-221	0.40	
	1130		12.87	3.0	19.33	6.98	0.883	0	-237	0.37	Sulfur odor
	1132	collected sample									
	1140		12.86	final	20.11	7.00	0.817	0	-199	5.83	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_  
 Sample Collection Date: 10/7/04 Sample Collection Time: 1132 Prepared by: S. Will

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU2 - ROD WELL ID: NEA-MW28-55 SAMPLE NUMBER: TH30052  
 Samplers: McMullen/Buhl Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/Bladder Pump Target Purge Volume: 2 gal. Ferrous Iron: 1.86 x 3 = 5.58 mg/L  
 Sounding (Depth to Well Bottom): 22 ft. Static Water Level (Depth to Water): 11.32 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/07/04	0900		11.35	Initial	18.26	6.19	0.1610	0.0	-73	4.54	fuel odor
	0905		11.35	0.2	17.34	6.78	0.843	10.2	-143	1.28	
	0910		11.35	0.8	17.32	6.96	0.874	12.2	-135	0.30	
	0915		11.35	1.3	17.35	7.02	0.881	8.2	-183	0.25	
	0920		11.35	1.8	17.27	7.07	0.887	11.3	-188	0.32	
	0925		11.35	2.3	17.68	7.08	0.887	10.1	-189	0.34	
	0930		11.35	2.7	17.66	7.10	0.892	7.5	-189	0.57	
	0935		11.35	3.1	17.78	7.12	0.891	8.3	-188	0.47	
	0937		sample								
	1002		11.35	Knock	18.07	7.14	0.899	9.4	-161	2.18	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable  
 QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD TH30052MS Split: TH30052MSD  
 Sample Collection Date: 10/07 Sample Collection Time: 0937 Prepared by: McMullen





# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU2 - ROD WELL ID: OW-3 SAMPLE NUMBER: TH 30056  
 Samplers: McMiller (BLU) Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/Bladder Target Purge Volume: 2 gal. Ferrous Iron: 5.17 x 4 = 4.68 mg/L  
 Sounding (Depth to Well Bottom): 25 ft. Static Water Level (Depth to Water): 12.65 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) <u>ms/cm</u>	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/09/04	1441		12.65	Initial	18.79	7.04	0.900	23.8	-134	7.98	fuel odor
	1446		12.65	0.4	18.83	7.12	0.880	15.2	-167	5.79	sheen on water
	1451		12.65	0.9	19.09	7.13	0.880	9.5	-180	4.79	in bucket
	1456		12.65	1.4	19.15	7.14	0.884	6.7	-186	4.65	
	1501		12.65	1.9	19.33	7.15	0.883	4.3	-189	4.39	
	1506		12.65	2.3	19.48	7.16	0.882	5.9	-191	4.27	
	1511		12.65	2.7	19.41	7.17	0.887	6.0	-193	4.13	
	1516		12.65	3.1	19.45	7.17	0.888	5.6	-193	3.99	
	1518	sample									
	1531		12.65	final	19.01	7.16	0.902	3.3	-171	2.24	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/07/04 Sample Collection Time: 1518 Prepared by: McMiller





# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: **OU2 - ROD**

WELL ID: **P18-1**

SAMPLE NUMBER: **TH30059**

Samplers: **McCheller / Bunl**

Well Secure (Y/N) **Y**

Well Casing Diameter: **2** in.

Purging Method / Equipment: **Micropurge / Bladder Pump** Target Purge Volume: **2** gal. Ferrous Iron: **1.05 x 4 = 4.20** mg/L

Sounding (Depth to Well Bottom): **131** ft.

Static Water Level (Depth to Water): **Below top of pump @ 9'**

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/7/04	1336		BTP	Initial	19.44	6.90	1.01	21.4	-115	4.08	fuel odor
	1341		BTP	0.4	19.29	7.04	1.01	17.4	-159	7.37	
	1346			0.9	19.24	7.05	1.01	18.8	-166	7.01	
	1351			1.3	19.26	7.06	1.01	12.3	-170	6.07	
	1356			1.7	19.28	7.06	1.01	15.0	-172	6.19	
	1401			2.0	19.30	7.06	1.01	16.4	-173	5.90	
	1406			2.3	19.28	7.06	1.01	18.0	-173	5.35	
	1411			2.7	19.28	7.06	1.01	18.4	-173	7.57	
	1414	sample									
	1425		BTP	Final	19.89	7.11	0.99	8.8	-155	1.80	

Test Parameters (Circle Applicable): **VOC (HCl)** Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) **Sulfate** Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): **None** Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: **10/07/04** Sample Collection Time: **1414** Prepared by: **McCheller**

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU2 - ROD WELL ID: P18-2 SAMPLE NUMBER: TH30060  
Samplers: KH, BF Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
Purging Method / Equipment: Micropurge/ PERISTALTIC PUMP Target Purge Volume: 2 gal. Ferrous Iron: 3.30 (4/1) mg/L  
Sounding (Depth to Well Bottom): 14.0 ft. Static Water Level (Depth to Water): 11.81 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/7/04	1342	LWT	11.81	LWT	20.62	6.66	1.28	39.5	-117	2.63	CLOUDY
	1347	0.04	11.81	0.20	20.16	6.64	1.22	4.4	-120	1.15	CLEAR
	1352	0.06	11.81	0.50	20.18	6.65	1.22	0	-122	0.72	"
	1357	0.10	11.81	1.00	20.18	6.65	1.20	0	-124	0.51	"
	1402	0.06	11.81	1.30	20.20	6.66	1.18	0	-125	0.31	"
	1407	0.06	11.81	1.60	20.23	6.67	1.18	0	-126	0.06	"
	1412	0.08	11.81	2.00	20.26	6.67	1.18	0	-126	0.03	"
	1417	0.04	11.81	2.20	20.34	6.68	1.18	0	-127	0	"
	1422	0.04	11.81	2.40	20.36	6.69	1.19	0	-128	0	"
	1425	SAMPLE		TH30060	6.72	1.23	0.9	0.62			
	1432	FIMM	11.81	FIMM	20.89	6.72	1.23	0.9	-128	0.62	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: — MS/MSD: — Split: —

Sample Collection Date: 10/7/04 Sample Collection Time: 1425 Prepared by: KYLE HAWKINS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU2 - ROD WELL ID: NEA-MW20-1D SAMPLE NUMBER: TH30046  
 Samplers: KH, BF Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ BLADDER PUMP Target Purge Volume: 2 gal. Ferrous Iron: 0.00 mg/L  
 Sounding (Depth to Well Bottom): 45.0 ft. Static Water Level (Depth to Water): 9.90 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) MS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/7/04	1540	1NT	9.90	1NT	16.59	7.56	0.1660	67.3	7	6.45	Clear
	1545	0.10	9.90	0.50	16.51	7.09	0.812	130.0	-2	3.20	"
	1550	0.10	9.90	1.00	16.09	7.06	0.816	42.6	14	2.85	"
	1555	0.10	9.90	1.50	16.08	7.05	0.817	14.4	23	2.84	Clear
	1600	0.10	9.90	2.00	16.08	7.05	0.818	3.4	27	2.80	"
	1605	0.10	9.90	2.50	16.66	7.04	0.816	1.1	29	2.78	"
	1610	0.10	9.90	3.00	17.00	7.05	0.817	3.1	80	2.82	"
	1612	SAMPLE		TH30046							
	1618	FINAL	9.90	FINAL	17.33	7.15	8.44	2.0	49	6.65	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
~~SVOC~~ ~~Pesticides / PCBs~~ ~~Cyanide (NaOH)~~ ~~Ammonia (H<sub>2</sub>SO<sub>4</sub>)~~ ~~Dioxin / Furans~~ ~~Extra Extractable~~

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/7/04 Sample Collection Time: 1612 Prepared by: KYLE HARRIS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: OU2 - ROD WELL ID: NEA - MW 21 - 2 D SAMPLE NUMBER: TH 30049  
 Samplers: KH, BE Well Secure (Y/N) \_\_\_\_\_ Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ BLADDER PUMP Target Purge Volume: 2 gal. Ferrous Iron: 0 mg/L  
 Sounding (Depth to Well Bottom): 24.50 ? ft. Static Water Level (Depth to Water): 12.05 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/7/04	1050	1 NT	12.05	1 NT	16.24	7.30	0.775	228.0	-64	4.44	cloudy
	1055	0.10	12.05	0.50	15.83	7.10	0.793	173.0	-7	2.26	"
	1100	0.10	12.05	1.00	15.80	7.06	0.789	32.5	22	3.02	cloudy H2O/BAL
	1105	0.10	12.05	1.50	15.76	7.06	0.793	11.7	30	1.86	
	1110	0.10	12.05	2.00	15.70	7.06	0.793	4.1	36	1.80	
	1115	0.10	12.05	2.50	15.66	7.06	0.793	0.0	46	1.79	
	1120	0.10	12.05	3.00	15.64	7.06	0.796	0.0	50	1.80	
	1125		SAMPLE								
	1130	FINAL	12.05	FINAL	16.35	7.10	0.766	0.0	66	3.77	

Test Parameters (Circle Applicable): VOC(HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate(H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable  
 QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_  
 Sample Collection Date: 10/7/04 Sample Collection Time: 1125 Prepared by: KYU: KAWAS

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: 04-016-M

Task: 04200500

Sample Number: TH30045

Collection Date: 07-OCT-04

Sample Name: 04-016-M-GW-TH30045-REG

Collection Time: 15:37

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: NEA-MW20-1D

Task: 04200500

Sample Number: TH30046

Collection Date: 07-OCT-04

Sample Name: NEA-MW20-1D-GW-TH30046-REG

Collection Time: 16:12

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **LH041007**

Location Code: **NEA-MW20-2S**

Task: **04200500**

Sample Number: **TH30047**

Collection Date: **07-OCT-04**

Sample Name: **NEA-MW20-2S-GW-TH30047-FD**

Collection Time: **11:08**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **FD**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: NEA-MW20-2S

Task: 04200500

Sample Number: TH30048

Collection Date: 07-OCT-04

Sample Name: NEA-MW20-2S-GW-TH30048-REG

Collection Time: 11:08

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: NEA-MW21-2D

Task: 04200500

Sample Number: TH30049

Collection Date: 07-OCT-04

Sample Name: NEA-MW21-2D-GW-TH30049-REG

Collection Time: 11:25

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: NEA-MW21-3S

Task: 04200500

Sample Number: TH30050

Collection Date: 07-OCT-04

Sample Name: NEA-MW21-3S-GW-TH30050-REG

Collection Time: 10:47

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units		Type
	Flt	Frtn	Qty	Size			
VOC	N	A	3	40	ML	VOA	Vial
GAS_DISS	N	B	3	40	ML	VOA	Vial
NITRATE	N	C	1	250	ML	HDPE	
SULFATE	N	D	1	250	ML	HDPE	

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: NEA-MW26-3S

Task: 04200500

Sample Number: TH30051

Collection Date: 07-OCT-04

Sample Name: NEA-MW26-3S-GW-TH30051-REG

Collection Time: 11:32

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041007**

Location Code: **NEA-MW28-5S**

Task: **04200500**

Sample Number: **TH30052**

Collection Date: **07-OCT-04**

Sample Name: **NEA-MW28-5S-GW-TH30052-REG**

Collection Time: **09:37**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: NEA-MW28-5S

Task: 04200500

Sample Number: TH30052MS

Collection Date: 07-OCT-04

Sample Name: NEA-MW28-5S-GW-TH30052MS-MS

Collection Time: 09:37

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: MS

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: NEA-MW28-5S

Task: 04200500

Sample Number: TH30052MSD

Collection Date: 07-OCT-04

Sample Name: NEA-MW28-5S-GW-TH30052MSD-MSD

Collection Time: 09:37

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: MSD

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: OW-1

Task: 04200500

Sample Number: TH30053

Collection Date: 07-OCT-04

Sample Name: OW-1-GW-TH30053-FD

Collection Time: 09:00

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: FD

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **LH041007**

Location Code: **OW-1**

Task: **04200500**

Sample Number: **TH30054**

Collection Date: **07-OCT-04**

Sample Name: **OW-1-GW-TH30054-REG**

Collection Time: **09:00**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: OW-2

Task: 04200500

Sample Number: TH30055

Collection Date: 07-OCT-04

Sample Name: OW-2-GW-TH30055-REG

Collection Time: 15:15

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: OW-3

Task: 04200500

Sample Number: TH30056

Collection Date: 07-OCT-04

Sample Name: OW-3-GW-TH30056-REG

Collection Time: 15:18

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: OW-4

Task: 04200500

Sample Number: TH30057

Collection Date: 07-OCT-04

Sample Name: OW-4-GW-TH30057-AB

Collection Time: 14:17

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: AB

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **LH041007**

Location Code: **OW-4**

Task: **04200500**

Sample Number: **TH30058**

Collection Date: **07-OCT-04**

Sample Name: **OW-4-GW-TH30058-REG**

Collection Time: **14:17**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **LH041007**

Location Code: **P18-1**

Task: **04200500**

Sample Number: **TH30059**

Collection Date: **07-OCT-04**

Sample Name: **P18-1-GW-TH30059-REG**

Collection Time: **14:14**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: P18-2

Task: 04200500

Sample Number: TH30060

Collection Date: 07-OCT-04

Sample Name: P18-2-GW-TH30060-REG

Collection Time: 14:25

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial
GAS_DISS	N	B	3	40	ML	VOA Vial
NITRATE	N	C	1	250	ML	HDPE
SULFATE	N	D	1	250	ML	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041007

Location Code: **FIELDQC**

Task: **04200500**

Sample Number: **TH30061**

Collection Date: **07-OCT-04**

Sample Name: **FIELDQC-WA-TH30061-TB**

Collection Time: **07:45**

Sampling Method: **G**

Start Depth:

Sample Type: **WA**

Sample Purpose: **TB**

End Depth:

Sample Matrix: **W**

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	a	2	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: TH041025\_SV

Location Code: **ROD-OU2-SV01**

Task: **04200500**

Sample Number: **TH60040**

Collection Date: **25-OCT-04**

Sample Name: **ROD-OU2-SV01-SG-TH60040-REG**

Collection Time: **14:45**

Sampling Method: **HS**

Start Depth:

Sample Type: **SG**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **GS**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: TH041025\_SV

Location Code: **ROD-OU2-SV02**

Task: **04200500**

Sample Number: **TH60041**

Collection Date: **25-OCT-04**

Sample Name: **ROD-OU2-SV02-SG-TH60041-REG**

Collection Time: **10:50**

Sampling Method: **HS**

Start Depth:

Sample Type: **SG**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **GS**

Sample Team:

Analytical Suite	Containers					Type
	Flt	Frtn	Qty	Size	Units	
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: TH041025\_SV**

*Location Code:* **ROD-OU2-SV03**

*Task:* **04200500**

*Sample Number:* **TH60042**

*Collection Date:* **25-OCT-04**

*Sample Name:* **ROD-OU2-SV03-SG-TH60042-REG**

*Collection Time:* **15:05**

*Sampling Method:* **HS**

*Start Depth:*

*Sample Type:* **SG**

*Sample Purpose:* **REG**

*End Depth:*

*Sample Matrix:* **GS**

*Sample Team:*

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	I	5	L	Tedlar Bag

*ERPIMS Values:*

*Sacode:*

*Lot Control#:*

**Comments:**

**Sketch Location:**

*Logged BY / Date:* \_\_\_\_\_

*Reviewed BY / Date:* \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: TH041025\_SV

Location Code: ROD-OU2-SV06

Task: 04200500

Sample Number: TH60043

Collection Date: 25-OCT-04

Sample Name: ROD-OU2-SV06-SG-TH60043-REG

Collection Time: 10:00

Sampling Method: HS

Start Depth:

Sample Type: SG

Sample Purpose: REG

End Depth:

Sample Matrix: GS

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: TH041025\_SV

Location Code: **ROD-OU2-SV07**

Task: **04200500**

Sample Number: **TH60044**

Collection Date: **25-OCT-04**

Sample Name: **ROD-OU2-SV07-SG-TH60044-REG**

Collection Time: **11:05**

Sampling Method: **HS**

Start Depth:

Sample Type: **SG**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **GS**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: TH041027\_SV**

Location Code: **ROD-OU2-SV11**

Task: **04200500**

Sample Number: **TH60045**

Collection Date: **27-OCT-04**

Sample Name: **ROD-OU2-SV11-SG-TH60045-FD**

Collection Time: **09:00**

Sampling Method: **HS**

Start Depth:

Sample Type: **SG**

Sample Purpose: **FD**

End Depth:

Sample Matrix: **GS**

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Secode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: TH041025\_SV

Location Code: ROD-OU2-SV08

Task: 04200500

Sample Number: TH60046

Collection Date: 25-OCT-04

Sample Name: ROD-OU2-SV08-SG-TH60046-REG

Collection Time: 09:30

Sampling Method: HS

Start Depth:

Sample Type: SG

Sample Purpose: REG

End Depth:

Sample Matrix: GS

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: TH041025\_SV

Location Code: ROD-OU2-SV09

Task: 04200500

Sample Number: TH60047

Collection Date: 25-OCT-04

Sample Name: ROD-OU2-SV09-SG-TH60047-REG

Collection Time: 11:22

Sampling Method: HS

Start Depth:

Sample Type: SG

Sample Purpose: REG

End Depth:

Sample Matrix: GS

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: TH041025\_SV

Location Code: ROD-OU2-SV09

Task: 04200500

Sample Number: TH60048

Collection Date: 25-OCT-04

Sample Name: ROD-OU2-SV09-SG-TH60048-AB

Collection Time: 09:10

Sampling Method: HS

Start Depth:

Sample Type: SG

Sample Purpose: AB

End Depth:

Sample Matrix: GS

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: TH041025\_SV

Location Code: ROD-OU2-SV10

Task: 04200500

Sample Number: TH60049

Collection Date: 25-OCT-04

Sample Name: ROD-OU2-SV10-SG-TH60049-REG

Collection Time: 12:05

Sampling Method: HS

Start Depth:

Sample Type: SG

Sample Purpose: REG

End Depth:

Sample Matrix: GS

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: TH041027\_SV

Location Code: ROD-OU2-SV11

Task: 04200500

Sample Number: TH60050

Collection Date: 27-OCT-04

Sample Name: ROD-OU2-SV11-SG-TH60050-REG

Collection Time: 09:00

Sampling Method: HS

Start Depth:

Sample Type: SG

Sample Purpose: REG

End Depth:

Sample Matrix: GS

Sample Team:

Analytical Suite	Containers					Type
	Flt	Frtn	Qty	Size	Units	
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: TH041025\_SV

Location Code: ROD-OU2-SV12

Task: 04200500

Sample Number: TH60051

Collection Date: 25-OCT-04

Sample Name: ROD-OU2-SV12-SG-TH60051-REG

Collection Time: 15:30

Sampling Method: HS

Start Depth:

Sample Type: SG

Sample Purpose: REG

End Depth:

Sample Matrix: GS

Sample Team:

## Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sucode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:



# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: TH041025\_SV

Location Code: ROD-OU2-SV13

Task: 04200500

Sample Number: TH60052

Collection Date: 25-OCT-04

Sample Name: ROD-OU2-SV13-SG-TH60052-REG

Collection Time: 16:03

Sampling Method: HS

Start Depth:

Sample Type: SG

Sample Purpose: REG

End Depth:

Sample Matrix: GS

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: TH041025\_SV

Location Code: ROD-OU2-SV14

Task: 04200500

Sample Number: TH60053

Collection Date: 25-OCT-04

Sample Name: ROD-OU2-SV14-SG-TH60053-REG

Collection Time: 11:50

Sampling Method: HS

Start Depth:

Sample Type: SG

Sample Purpose: REG

End Depth:

Sample Matrix: GS

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: TH041025\_SV

Location Code: **ROD-OU2-SV06**

Task: **04200500**

Sample Number: **TH60054**

Collection Date: **25-OCT-04**

Sample Name: **ROD-OU2-SV06-SG-TH60054-FD**

Collection Time: **10:00**

Sampling Method: **HS**

Start Depth:

Sample Type: **SG**

Sample Purpose: **FD**

End Depth:

Sample Matrix: **GS**

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: TH041025\_SV**

Location Code: **ROD-OU2-SV15**

Task: **04200500**

Sample Number: **TH60055**

Collection Date: **25-OCT-04**

Sample Name: **ROD-OU2-SV15-SG-TH60055-REG**

Collection Time: **11:35**

Sampling Method: **HS**

Start Depth:

Sample Type: **SG**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **GS**

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
GAS_SO	N	A	1	5	L	Tedlar Bag

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

**F2**

**OU2 Chain of Custody Records**

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: LH041007

Page 1 of 3

Project Number: 829564

Samples Shipment Date: 08 OCT 2004

Bill To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212

Project Name: WPAFB

Lab Destination: Severn Trent Lab

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212

Turnaround Time: *normal*

Project Contact: Denise Pohl

Carrier/Waybill No.: Relinquished to STL/ Cind

## Special Instructions:

### Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

### Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By  
(Signature/Affiliation)

Date: 10/07/04  
Time:

1. Received By  
(Signature/Affiliation)

Date: 10/8/04  
Time: 1600

2. Relinquished By  
(Signature/Affiliation)

Date: 10/07/04  
Time: 1610

2. Received By  
(Signature/Affiliation)

Date: 10/8/04  
Time: 9:55

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	FI	CID	QC Lvl	Condition On Receipt
TH30045	04-018-M-GW-TH30045-REG	07 OCT 2004	15:37	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N			
TH30045	04-018-M-GW-TH30045-REG	07 OCT 2004	15:37	40 ML VOA Vial	3	HCl<pH 2	Dissolved Gases by RSK 175	N			
TH30045	04-018-M-GW-TH30045-REG	07 OCT 2004	15:37	250 ML HDPE	1	H2SO4<pH 2	Nitrate by EPA 300.0A	N			
TH30045	04-018-M-GW-TH30045-REG	07 OCT 2004	15:37	250 ML HDPE	1	None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30048	NEA-MW20-1D-GW-TH30048-REG	07 OCT 2004	16:12	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N			
TH30048	NEA-MW20-1D-GW-TH30048-REG	07 OCT 2004	16:12	40 ML VOA Vial	3	HCl<pH 2	Dissolved Gases by RSK 175	N			
TH30048	NEA-MW20-1D-GW-TH30048-REG	07 OCT 2004	16:12	250 ML HDPE	1	H2SO4<pH 2	Nitrate by EPA 300.0A	N			
TH30048	NEA-MW20-1D-GW-TH30048-REG	07 OCT 2004	16:12	250 ML HDPE	1	None except cool to 4 C	Sulfate by EPA 300.0A	N			

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: LH041007

Page 2 of 3

41-  
10/9/04 9:55

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Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	File	CID	QC Lvl	Condition On Receipt
TH30047	NEA-MW20-2S-GW-TH30047-FD	07 OCT 2004	11:08	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N			
TH30047	NEA-MW20-2S-GW-TH30047-FD	07 OCT 2004	11:08	40 ML VOA Vial	3 HCl-pH 2	Dissolved Gases by RSK 175	N			
TH30047	NEA-MW20-2S-GW-TH30047-FD	07 OCT 2004	11:08	250 ML HDPE	1 H2SO4-pH 2	Nitrate by EPA 300.0A	N			
TH30047	NEA-MW20-2S-GW-TH30047-FD	07 OCT 2004	11:08	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30048	NEA-MW20-2S-GW-TH30048-REG	07 OCT 2004	11:08	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N			
TH30048	NEA-MW20-2S-GW-TH30048-REG	07 OCT 2004	11:08	40 ML VOA Vial	3 HCl-pH 2	Dissolved Gases by RSK 175	N			
TH30048	NEA-MW20-2S-GW-TH30048-REG	07 OCT 2004	11:08	250 ML HDPE	1 H2SO4-pH 2	Nitrate by EPA 300.0A	N			
TH30048	NEA-MW20-2S-GW-TH30048-REG	07 OCT 2004	11:08	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30049	NEA-MW21-2D-GW-TH30049-REG	07 OCT 2004	11:25	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N			
TH30049	NEA-MW21-2D-GW-TH30049-REG	07 OCT 2004	11:25	40 ML VOA Vial	3 HCl-pH 2	Dissolved Gases by RSK 175	N			
TH30049	NEA-MW21-2D-GW-TH30049-REG	07 OCT 2004	11:25	250 ML HDPE	1 H2SO4-pH 2	Nitrate by EPA 300.0A	N			
TH30049	NEA-MW21-2D-GW-TH30049-REG	07 OCT 2004	11:25	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30050	NEA-MW21-3S-GW-TH30050-REG	07 OCT 2004	10:47	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N			
TH30050	NEA-MW21-3S-GW-TH30050-REG	07 OCT 2004	10:47	40 ML VOA Vial	3 HCl-pH 2	Dissolved Gases by RSK 175	N			
TH30050	NEA-MW21-3S-GW-TH30050-REG	07 OCT 2004	10:47	250 ML HDPE	1 H2SO4-pH 2	Nitrate by EPA 300.0A	N			
TH30050	NEA-MW21-3S-GW-TH30050-REG	07 OCT 2004	10:47	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30051	NEA-MW28-3S-GW-TH30051-REG	07 OCT 2004	11:32	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N			
TH30051	NEA-MW28-3S-GW-TH30051-REG	07 OCT 2004	11:32	40 ML VOA Vial	3 HCl-pH 2	Dissolved Gases by RSK 175	N			
TH30051	NEA-MW28-3S-GW-TH30051-REG	07 OCT 2004	11:32	250 ML HDPE	1 H2SO4-pH 2	Nitrate by EPA 300.0A	N			
TH30051	NEA-MW28-3S-GW-TH30051-REG	07 OCT 2004	11:32	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30052	NEA-MW28-5S-GW-TH30052-REG	07 OCT 2004	09:37	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N			
TH30052	NEA-MW28-5S-GW-TH30052-REG	07 OCT 2004	09:37	40 ML VOA Vial	3 HCl-pH 2	Dissolved Gases by RSK 175	N			
TH30052	NEA-MW28-5S-GW-TH30052-REG	07 OCT 2004	09:37	250 ML HDPE	1 H2SO4-pH 2	Nitrate by EPA 300.0A	N			
TH30052	NEA-MW28-5S-GW-TH30052-REG	07 OCT 2004	09:37	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30052MS	NEA-MW28-5S-GW-TH30052MS-MS	07 OCT 2004	09:37	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N			
TH30052MS	NEA-MW28-5S-GW-TH30052MS-MS	07 OCT 2004	09:37	40 ML VOA Vial	3 HCl-pH 2	Dissolved Gases by RSK 175	N			
TH30052MS	NEA-MW28-5S-GW-TH30052MS-MS	07 OCT 2004	09:37	250 ML HDPE	1 H2SO4-pH 2	Nitrate by EPA 300.0A	N			
TH30052MS	NEA-MW28-5S-GW-TH30052MS-MS	07 OCT 2004	09:37	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30052MSD	NEA-MW28-5S-GW-TH30052MSD-MSD	07 OCT 2004	09:37	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N			
TH30052MSD	NEA-MW28-5S-GW-TH30052MSD-MSD	07 OCT 2004	09:37	40 ML VOA Vial	3 HCl-pH 2	Dissolved Gases by RSK 175	N			
TH30052MSD	NEA-MW28-5S-GW-TH30052MSD-MSD	07 OCT 2004	09:37	250 ML HDPE	1 H2SO4-pH 2	Nitrate by EPA 300.0A	N			
TH30052MSD	NEA-MW28-5S-GW-TH30052MSD-MSD	07 OCT 2004	09:37	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30053	QW-1-GW-TH30053-FD	07 OCT 2004	09:00	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N			
TH30053	QW-1-GW-TH30053-FD	07 OCT 2004	09:00	40 ML VOA Vial	3 HCl-pH 2	Dissolved Gases by RSK 175	N			

STL North Canton

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: LH041007

Page 3 of 3

*Y.H. Miller*  
*10/8/04 9:55*

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	FI	CID	QC Lvl	Condition On Receipt
TH30053	DW-1-GW-TH30053-FD	07 OCT 2004	09:00	250 ML HDPE	1 H2SO4<pH 2	Nitrate by EPA 300.0A	N			
TH30053	DW-1-GW-TH30053-FD	07 OCT 2004	09:00	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30054	DW-1-GW-TH30054-REG	07 OCT 2004	09:00	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
TH30054	DW-1-GW-TH30054-REG	07 OCT 2004	09:00	40 ML VOA Vial	3 HCl<pH 2	Dissolved Gases by RSK 175	N			
TH30054	DW-1-GW-TH30054-REG	07 OCT 2004	09:00	250 ML HDPE	1 H2SO4<pH 2	Nitrate by EPA 300.0A	N			
TH30054	DW-1-GW-TH30054-REG	07 OCT 2004	09:00	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30055	DW-2-GW-TH30055-REG	07 OCT 2004	15:15	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
TH30055	DW-2-GW-TH30055-REG	07 OCT 2004	15:15	40 ML VOA Vial	3 HCl<pH 2	Dissolved Gases by RSK 175	N			
TH30055	DW-2-GW-TH30055-REG	07 OCT 2004	15:15	250 ML HDPE	1 H2SO4<pH 2	Nitrate by EPA 300.0A	N			
TH30055	DW-2-GW-TH30055-REG	07 OCT 2004	15:15	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30056	DW-3-GW-TH30056-REG	07 OCT 2004	15:18	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
TH30056	DW-3-GW-TH30056-REG	07 OCT 2004	15:18	40 ML VOA Vial	3 HCl<pH 2	Dissolved Gases by RSK 175	N			
TH30056	DW-3-GW-TH30056-REG	07 OCT 2004	15:18	250 ML HDPE	1 H2SO4<pH 2	Nitrate by EPA 300.0A	N			
TH30056	DW-3-GW-TH30056-REG	07 OCT 2004	15:18	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30057	DW-4-GW-TH30057-AB	07 OCT 2004	14:17	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
TH30057	DW-4-GW-TH30057-AB	07 OCT 2004	14:17	40 ML VOA Vial	3 HCl<pH 2	Dissolved Gases by RSK 175	N			
TH30057	DW-4-GW-TH30057-AB	07 OCT 2004	14:17	250 ML HDPE	1 H2SO4<pH 2	Nitrate by EPA 300.0A	N			
TH30057	DW-4-GW-TH30057-AB	07 OCT 2004	14:17	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30058	DW-4-GW-TH30058-REG	07 OCT 2004	14:17	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
TH30058	DW-4-GW-TH30058-REG	07 OCT 2004	14:17	40 ML VOA Vial	3 HCl<pH 2	Dissolved Gases by RSK 175	N			
TH30058	DW-4-GW-TH30058-REG	07 OCT 2004	14:17	250 ML HDPE	1 H2SO4<pH 2	Nitrate by EPA 300.0A	N			
TH30058	DW-4-GW-TH30058-REG	07 OCT 2004	14:17	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30059	P18-1-GW-TH30059-REG	07 OCT 2004	14:14	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
TH30059	P18-1-GW-TH30059-REG	07 OCT 2004	14:14	40 ML VOA Vial	3 HCl<pH 2	Dissolved Gases by RSK 175	N			
TH30059	P18-1-GW-TH30059-REG	07 OCT 2004	14:14	250 ML HDPE	1 H2SO4<pH 2	Nitrate by EPA 300.0A	N			
TH30059	P18-1-GW-TH30059-REG	07 OCT 2004	14:14	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30060	P18-2-GW-TH30060-REG	07 OCT 2004	14:25	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N			
TH30060	P18-2-GW-TH30060-REG	07 OCT 2004	14:25	40 ML VOA Vial	3 HCl<pH 2	Dissolved Gases by RSK 175	N			
TH30060	P18-2-GW-TH30060-REG	07 OCT 2004	14:25	250 ML HDPE	1 H2SO4<pH 2	Nitrate by EPA 300.0A	N			
TH30060	P18-2-GW-TH30060-REG	07 OCT 2004	14:25	250 ML HDPE	1 None except cool to 4 C	Sulfate by EPA 300.0A	N			
TH30061	FIELDQC-WA-TH30061-TB	07 OCT 2004	07:45	40 ML VOA Vial	2 HCl<pH 2	VOC by EPA 8260B with MTBE	N			





# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: TH041025\_SV

Page 1 of 2

Project Number: 829564

Samples Shipment Date: 25 OCT 2004

Bill To: Greg Plamondon

Project Name: WPAFB

Lab Destination: Severn Trent Lab

5050 Section Ave

Norwood OH 45212

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon

Turnaround Time:

Project Contact: Denise Pohl

5050 Section Ave

Norwood OH 45212

*normal*

Carrier/Waybill No.: Relinquished to STL/ Cincinnati

## Special Instructions:

### Possible Hazard Identification:

Non-hazard

Flammable

Skin Irritant

Poison B

Unknown ☒

1. Relinquished By  
(Signature/Affiliation)

*Marie Chiller*

Date: 10/25/04  
Time: 1700

2. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

### Sample Disposal:

Return to Client

Disposal by Lab ☒

Archive

(mos.)

1. Received By  
(Signature/Affiliation)

Date:  
Time:

2. Received By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File CID	Condition On Receipt
TH60040	ROD-OU2-SV01-SG-TH60040-REG	25 OCT 2004	14:45	5 L Tedlar Bag	1	None Specified	BTEX, TVH by TO-2 and Fixed Gases by D1946	N	
TH60041	ROD-OU2-SV02-SG-TH60041-REG	25 OCT 2004	10:50	5 L Tedlar Bag	1	None Specified	BTEX, TVH by TO-2 and Fixed Gases by D1946	N	
TH60042	ROD-OU2-SV03-SG-TH60042-REG	25 OCT 2004	15:05	5 L Tedlar Bag	1	None Specified	BTEX, TVH by TO-2 and Fixed Gases by D1946	N	
TH60043	ROD-OU2-SV06-SG-TH60043-REG	25 OCT 2004	10:00	5 L Tedlar Bag	1	None Specified	BTEX, TVH by TO-2 and Fixed Gases by D1946	N	
TH60044	ROD-OU2-SV07-SG-TH60044-REG	25 OCT 2004	11:05	5 L Tedlar Bag	1	None Specified	BTEX, TVH by TO-2 and Fixed Gases by D1946	N	

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: TH041025\_SV

Page 2 of 2

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	File	CID	Condition On Receipt
TH60046	ROD-OU2-SV08-SG-TH60046-REG	25 OCT 2004	09:30	5 L Tedlar Bag	1 None Specified	BTEX, TVH by TO-2 and Fixed Gases by N D1946			
TH60047	ROD-OU2-SV09-SG-TH60047-REG	25 OCT 2004	11:22	5 L Tedlar Bag	1 None Specified	BTEX, TVH by TO-2 and Fixed Gases by N D1946			
TH60048	ROD-OU2-SV09-SG-TH60048-REG	25 OCT 2004	09:10	5 L Tedlar Bag	1 None Specified	BTEX, TVH by TO-2 and Fixed Gases by N D1946			
TH60049	ROD-OU2-SV10-SG-TH60049-REG	25 OCT 2004	12:05	5 L Tedlar Bag	1 None Specified	BTEX, TVH by TO-2 and Fixed Gases by N D1946			
TH60051	ROD-OU2-SV12-SG-TH60051-REG	25 OCT 2004	15:30	5 L Tedlar Bag	1 None Specified	BTEX, TVH by TO-2 and Fixed Gases by N D1946			
TH60052	ROD-OU2-SV13-SG-TH60052-REG	25 OCT 2004	16:03	5 L Tedlar Bag	1 None Specified	BTEX, TVH by TO-2 and Fixed Gases by N D1946			
TH60053	ROD-OU2-SV14-SG-TH60053-REG	25 OCT 2004	11:50	5 L Tedlar Bag	1 None Specified	BTEX, TVH by TO-2 and Fixed Gases by N D1946			
TH60054	ROD-OU2-SV05-SG-TH60054-FD	25 OCT 2004	10:00	5 L Tedlar Bag	1 None Specified	BTEX, TVH by TO-2 and Fixed Gases by N D1946			
TH60055	ROD-OU2-SV15-SG-TH60055-REG	25 OCT 2004	11:35	5 L Tedlar Bag	1 None Specified	BTEX, TVH by TO-2 and Fixed Gases by N D1946			



# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: TH041027\_SV

Page 1 of 1

Project Number: 629564  
Project Name: WPAFB  
Sample Coordinator: Marie Chiller  
Turnaround Time: *normal*  
Samples Shipment Date: 27 OCT 2004  
Lab Destination: Severn Trent Lab  
Lab Contact: Denise Pohl  
Project Contact: Denise Pohl  
Carrier/Waybill No.: Relinquished to STL/ Cinci

Bill To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212  
Report To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212

## Special Instructions:

### Possible Hazard Identification:

Non-hazard Flammable Skin Irritant

Poison B

Unknown *X*

1. Relinquished By  
(Signature/Affiliation)

*Marie Chiller*

Date: *10/29/04*  
Time: *1500*

2. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

### Sample Disposal:

Return to Client

Disposal by Lab *X*

Archive

(mos.)

1. Received By  
(Signature/Affiliation)

Date:  
Time:

2. Received By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Condition On Receipt
TH60045	ROD-OU2-SV11-SG-TH60045-FD	27 OCT 2004	09:00	5 L Tedlar Bag	1	None Specified	BTEX, TVH by TO-2 and Fixed Gases by D1946	N
TH60050	ROD-OU2-SV11-SG-TH60050-REG	27 OCT 2004	09:00	5 L Tedlar Bag	1	None Specified	BTEX, TVH by TO-2 and Fixed Gases by D1946	N

**F3**

**OU2 Water Level Field Log**

Shaw Personnel: KH

# OU2 Water Levels for the LTM Program Wright-Patterson AFB, Ohio

Date: 9/28/04JP

Well No.	TOC	Log	Well	LEL	PID	Static Depth to Water		Comments
	Elevation (ft, MSL)	Time	Secure (Y/N)	Reading (%)	Reading (ppm)	TOC (ft)	TOPC (ft)	
04-016-M	818.33	1213	Y	NA	NA	8.58	—	on the flight line
04-517-M	821.96	1510	Y	NA	NA	8.23	—	
04-606-M		1512	Y	NA	NA	10.64	—	
OW-1	817.20	1415	Y	NA	NA	8.53	—	
OW-2	817.64	1116	Y	NA	NA	10.48	—	on the flight line
OW-3	819.04	1113	Y	NA	NA	12.44	—	on the flight line
OW-4	817.20	1103	Y	NA	NA	10.57	—	on the flight line
OW-6	816.40	1025	Y	NA	NA	10.66	—	on the flight line
MW11-1	821.33	1505	Y	NA	NA	11.20	—	
P16-1	816.50	1206	Y	NA	NA	5.03	—	on the flight line
P18-1	816.72	1020	Y	NA	NA	10.42	—	on the flight line
P18-2	817.91	1109	Y	NA	NA	11.62	—	on the flight line
NEA-PZ32	821.60	1516	Y	NA	NA	10.29	—	
NEA-MW20-2S	821.49	1520	Y	NA	NA	9.55	—	
NEA-MW21-3S	820.85	1525	Y	NA	NA	10.98	—	
NEA-MW22-3S	817.87	1152	Y	NA	NA	7.53	—	on the flight line
NEA-MW23-2S	816.50	1145	Y	NA	NA	7.71	—	on the flight line
NEA-MW24-2S	818.68	1154	Y	NA	NA	9.81	—	
NEA-MW25-3S	815.20	1130	Y	NA	NA	10.71	—	on the flight line
NEA-MW26-3S	819.23	1445	Y	NA	NA	12.56	—	
NEA-MW28-5S	818.50	1500	Y	NA	NA	11.08	—	
NEA-MW29-2S	817.92	1135	Y	NA	NA	10.88	—	on the flight line
TOC = Top of casing								
TOPC = Top of protective casing								
New 09/27/04								

## **Appendix H**

### **Basewide LTM Groundwater Purge Logs and Sample Collection Forms**

#### **Bill of Lading from Perma-Fix – October**

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms***

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 2

SITE ID: LTM/BUILDING 59 WELL ID: B59-MW01 SAMPLE NUMBER: LH30156  
 Samplers: BU/SW Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ bladder Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 14.9 ft. Static Water Level (Depth to Water): 3.35 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/15/04	0925		6.00	init	20.04	5.99	1.17	16.5	29	5.28	clear
	0930		6.57	0.25	20.83	6.81	0.441	6.7	1	6.73	
	0935		6.90	0.3	20.35	7.00	0.385	6.6	32	6.78	
	0940		7.58	0.6	20.03	7.55	0.270	16.5	52	6.93	
	0945		8.15	0.95	20.98	7.76	0.277	3.6	58	6.24	
	0950		8.34	1.0	20.27	7.79	0.278	8.5	63	5.98	
	0955		8.57	1.05	19.38	7.84	0.269	12.2	69	5.76	
	1000		8.75	1.1	19.45	7.90	0.262	14.9	71	5.55	
	1005		8.98	1.2	19.46	7.92	0.261	16.8	73	5.32	
	1010		9.13	1.3	19.46	7.93	0.266	18.4	75	5.14	
	1015		9.28	1.4	19.42	7.93	0.273	19.3	77	4.95	
	1020		9.49	1.5	19.42	7.84	0.290	0.3	82	4.45	
	1025		9.70	1.9	19.51	7.74	0.332	1.0	85	3.98	
	1030		9.88	2.0	19.06	7.66	0.428	1.4	87	3.41	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate(H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/15/04 Sample Collection Time: 1047 Prepared by: SWH

WELL ID: B59-MW01

Page 2 of 2[illegible]



## Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: LTM/BUILDING 59 WELL ID: B59-MW02

SAMPLE NUMBER: LH 30157

Samplers: BUM/McMiller Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/Bladder Pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 30.9 ft.

Static Water Level (Depth to Water): 10.15 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/12/04	1022		11.32	Initial	17.15	7.27	2.42	3.5	-102	2.13	
	1027		11.34	0.4	17.76	7.35	1.24	1.8	-141	0.49	
	1032		11.32	0.8	17.84	7.24	1.02	5.5	-144	0.35	
	1037		11.32	1.1	17.84	7.20	0.96	12.4	-142	0.32	
	1042		11.42	1.4	17.89	7.19	0.95	8.2	-139	0.30	
	1047		11.30	1.6	17.95	7.18	0.94	11.1	-138	0.28	
	1052		11.24	1.9	17.97	7.18	0.94	9.0	-137	0.26	
	1057		11.24	2.2	17.91	7.18	0.94	7.7	-137	0.26	
	1102		11.24	2.4	18.07	7.18	0.94	9.7	-136	0.25	
	1107		11.24	2.6	17.98	7.18	0.94	2.1	-136	0.24	
	1110	sample									
	1136		11.23	FINAL	18.06	7.21	0.93	4.7	-122	1.47	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/12/04 Sample Collection Time: 1110 Prepared by: McMiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: LTM/BUILDING 59 WELL ID: B59-MW03 SAMPLE NUMBER: LH30158  
 Samplers: BUM / mchiller Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ Bladder Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 19.5 ft. Static Water Level (Depth to Water): 7.90 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) MS/LM	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/12/04	0836		11.42	Initial	17.92	6.91	0.93	12.9	-114	3.55	
	0841		11.60	0.8	16.73	6.98	0.779	11.6	-111	2.22	
	0846		11.18	0.9	15.59	7.03	0.774	26.6	-107	2.39	
	0851		11.51	1.1	17.73	7.02	0.830	21.3	-113	1.35	
	0856		11.54	1.3	17.29	7.07	0.826	14.1	-104	1.35	
	0901		11.40	1.4	17.31	7.07	0.853	13.8	-103	1.17	
	0906		11.30	1.6	16.86	7.07	0.879	9.8	-104	1.02	
	0911		11.30	1.9	17.18	7.07	0.899	15.3	-106	0.86	
	0916		11.20	2.0	17.07	7.07	0.908	17.1	-106	0.74	
	0921		11.20	2.1	17.26	7.07	0.919	15.9	-106	0.71	
	0926		11.10	2.2	17.05	7.07	0.930	11.5	-107	0.66	
	0928 sample										
	1004		11.38	Final	17.04	7.10	0.98	6.0	-83	2.63	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: DEPA

Sample Collection Date: 10/12/04 Sample Collection Time: 0928 Prepared by: mchiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/BUILDING 59 WELL ID: B59-MW04 SAMPLE NUMBER: LH30160  
 Samplers: KIT, BF Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ BLADDER PUMP Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 17.0 ft. Static Water Level (Depth to Water): 6.67 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/15/04	0939	1WT	7.50	1WT	18.32	6.55	0.754	39.5	104	3.17	
	0944	0.02	7.50	0.10	18.50	7.37	0.703	26.8	44	1.02	
	0949	0.02	7.50	0.20	19.14	9.51	0.536	26.5	-29	1.89	
	0954	0.02	7.50	0.30	19.28	10.48	0.499	25.1	-53	3.16	
	0959	0.02	7.50	0.40	19.24	10.87	0.508	27.4	-61	4.20	
	1004	0.02	7.50	0.50	19.28	10.89	0.523	25.0	-59	4.74	
	1009	0.02	7.50	0.60	19.21	10.89	0.536	24.5	-57	4.59	
	1014	0.06	7.50	0.90	19.07	10.84	0.543	22.4	-54	4.34	
	1019	0.02	7.50	1.00	18.82	10.79	0.562	23.1	-49	3.98	
	1024	0.02	7.50	1.10	19.00	10.64	0.575	16.5	-44	3.33	
	1029	0.02	7.50	1.20	19.10	10.49	0.605	14.4	-37	2.92	
	1034	0.02	7.50	1.30	19.18	10.27	0.634	10.2	-27	2.48	
	1039	0.02	7.50	1.40	19.18	10.00	0.709	12.2	-13	1.95	
	1044	0.02	7.50	1.50	19.24	9.77	0.750	10.5	-5	1.81	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
~~SVOC~~ Pesticides/PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin/Furans Extra-Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: LH30159 MS/MSD:            Split:           

Sample Collection Date: 10/15/04 Sample Collection Time: 1121 Prepared by: KYLE HAVENS

WELL ID:

B5d - mw04

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[illegible]

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM / B55

WELL ID: B55-P-1

SAMPLE NUMBER: LH30168

Samplers: BF/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2" in.

Purging Method / Equipment: Micropurge / Bladder Pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 38 ft.

Static Water Level (Depth to Water): 30.88 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/19/04	1408		30.88	INITIAL	13.70	7.38	.91	20.6	103	8.45	CLEAR
	1413		31.00	0.5	13.31	7.13	.94	12.4	105	6.51	CLEAR
	1418		30.98	1.1	13.29	7.10	.94	10.6	105	6.66	CLEAR
	1423		31.00	1.9	13.28	7.10	.94	6.0	104	6.68	CLEAR
	1428		31.00	2.6	13.27	7.10	.94	5.7	107	6.69	CLEAR
	1433		31.00	3.1	13.27	7.10	.94	4.3	105	6.60	CLEAR
	1438		30.99	4.0	13.27	7.09	.94	4.2	105	6.62	CLEAR
	1440	Collected Sample									
	1442		31.00	4.2 FINAL	13.28	7.19	.93	3.3	105	8.83	CLEAR

Test Parameters (Circle Applicable): VOC (HCL) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCL) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/19/04 Sample Collection Time: 1440 Prepared by: BF/SW

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/855

WELL ID: B55-P-2

SAMPLE NUMBER: LH30169

Samplers: BSW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 40 ft.

Static Water Level (Depth to Water): 31.43 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/19/04	1315	3	31.43	Init	13.83	7.25	0.637	0	102	9.17	
	1320		31.43	0.6	13.33	7.03	0.866	15.0	101	7.32	
	1325		31.43	0.9	13.53	7.02	0.863	3.3	101	7.26	
	1330		31.43	1.4	13.45	7.02	0.862	1.1	101	7.19	
	1335		31.43	1.8	13.42	7.02	0.863	0.0	101	7.16	
	1340		31.43	2.0	13.43	7.02	0.863	0.0	102	7.19	
	1345		31.43	2.1	13.43	7.06	0.863	0.0	102	7.17	
	1350		31.43	2.6	13.34	7.02	0.863	0.0	102	7.19	
	1352	Collect sample									
	1354		31.43	Final	13.37	7.09	0.990	0.0	104	8.40	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate(H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/19/04 Sample Collection Time: 1352 Prepared by: SWT

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/BS5 WELL ID: BS5-P-3 SAMPLE NUMBER: LH30170  
 Samplers: KH, BU Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ BLADDER PUMP Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 43.0 ft. Static Water Level (Depth to Water): 30.10 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/19/04	1321	1.25	30.10	1.25	14.53	7.37	1.20	40.2	150	8.59	CLEAR
	1326	0.10	30.10	0.50	14.12	7.26	1.14	84.3	145	5.44	"
	1331	0.10	30.10	1.00	14.17	7.25	1.15	75.8	142	5.47	"
	1336	0.10	30.10	1.50	14.15	7.26	1.16	24.5	141	5.56	CLEAR
	1341	0.10	30.10	2.00	14.14	7.27	1.18	9.4	140	5.69	CLEAR
	1346	0.10	30.10	2.50	14.07	7.27	1.16	7.0	141	5.68	"
	1351	0.10	30.10	3.00	14.02	7.28	1.15	8.4	141	5.79	"
	1353	SAMPLE # LH30170									"
	1355	FINAL	30.10	FINAL	14.04	7.34	1.15	7.7	146	9.66	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
~~SVOC~~ ~~Pesticides / PCBs~~ ~~Cyanide (NaOH)~~ ~~Ammonia (H<sub>2</sub>SO<sub>4</sub>)~~ ~~Dioxin / Furans~~ ~~Extra Extractable~~

QA/QC Samples Taken (Circle Applicable): None Duplicate: — MS/MSD: — Split: —

Sample Collection Date: 10/19/04 Sample Collection Time: 1351 Prepared by: KYLE HALL

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM / B55

WELL ID: B55 - P-4

SAMPLE NUMBER: LH 30171

Samplers: 14, BU

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 50.0 ft.

Static Water Level (Depth to Water): 35.27 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/19/04	1405	1WT	35.77	1WT	14.87	7.45	1.39	69.1	145	7.05	cloudy
	1410	0.00	35.77	0.50	14.85	7.27	1.32	47.2	146	7.12	"
	1415	0.00	35.77	1.00	14.82	7.27	1.31	25.3	148	7.35	clear
	1420	0.00	35.77	1.50	14.88	7.27	1.31	13.8	149	7.20	"
	1425	0.00	35.77	2.00	14.88	7.26	1.31	10.0	151	7.14	"
	1430	0.00	35.77	2.50	14.86	7.26	1.31	4.0	150	6.78	"
	1435	0.00	35.77	3.00	14.86	7.26	1.31	3.9	153	7.10	"
	1437		SAMPLE								"
	1440	FINAL	35.77	FINAL	14.91	7.34	1.31	5.5	154	6.77	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ether (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
~~SVOC~~ ~~Pesticides / PCBs~~ ~~Cyanide (NaOH)~~ ~~Ammonia (H<sub>2</sub>SO<sub>4</sub>)~~ ~~Dioxin / Furans~~ ~~Extra Extractable~~

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/19/04 Sample Collection Time: 1437 Prepared by: KYLE HUNTER



# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/BUILDING 79/45 WELL ID: B79 C/D - MW01 SAMPLE NUMBER: LH30161

Samplers: McMiller/Bum Well Secure (Y/N) Y Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ Bladder Pump Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 26 ft. Static Water Level (Depth to Water): 6.80 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/08/04	1131		7.19	Initial	18.11	7.18	1.18	999	-41	4.08	cloudy - possibly bentonite
	1139		8.60	0.9	15.38	7.08	1.14	420	-108	0.37	bentonite
	1144		8.98	2.0	15.43	7.08	1.16	293	-111	0.32	increased pump rate
	1149		9.02	3.5	15.25	7.09	1.16	169	-113	1.32	to clear out this
	1154		9.13	5.0	15.32	7.09	1.16	123	-113	0.43	bentonite
	1159		9.45	6.0	15.80	7.09	1.18	49.7	-115	0.18	
	1204		9.10	7.0	15.76	7.10	1.18	136	-117	0.17	
	1209		9.10	8.0	15.81	7.10	1.18	207	-118	0.17	
	1214		9.10	8.5	15.86	7.10	1.18	213	-118	0.17	
	1219		9.10	9.0	15.87	7.10	1.18	209	-119	0.16	
	1220	sample									
	1229		9.10	Final	16.42	7.15	1.17	285	-105	1.28	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/08/04 Sample Collection Time: 1220 Prepared by: McMiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/BUILDING 79/45 WELL ID: B79C/D-MW02 SAMPLE NUMBER: LH 30102  
 Samplers: KK, BF Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ B-ADDER PUMP Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 29.0 ft. Static Water Level (Depth to Water): 4.14 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) MS/cm	Turbidity* (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/12/01	0833	1.05	4.14	1.05	14.41	5.90	1.16	45.6	125	9.16	CLEAR
	0838	0.1	5.45	0.50	14.38	6.61	1.20	278.0	-36	8.85	CLOUDY
	0843	0.1	5.45	1.00	14.37	6.72	1.21	269.0	-36	8.41	"
	0848	0.1	5.45	1.50	14.36	6.78	1.21	285.0	-34	7.87	"
	0853	0.1	5.45	2.00	14.29	6.80	1.21	236.0	-35	7.46	"
	0858	0.1	5.45	2.50	14.26	6.80	1.19	171.0	-29	1.19	CLEANED HORROR CELL
	0903	0.1	5.45	3.00	14.36	6.82	1.21	170.0	-34	0	CLOUDY
	0905	SAMPLE #									
	0912	FINAL	5.45	FINAL	14.28	6.92	1.21	170.0	-23	3.66	CLOUDY

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD: Split: O EPA

Sample Collection Date: 10/12/01 Sample Collection Time: 1012 Prepared by: KYLE HAWES

\* WELL IS TURBID FROM BENONITE

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LT M/BUILDING 79/45 WELL ID: B79C/D - MW03 SAMPLE NUMBER: LH 30163  
 Samplers: mChiller/Bunn Well Secure (Y/N) Y Well Casing Diameter: 0 in.  
 Purging Method / Equipment: Micropurge/Bladder Pump Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 28 ft. Static Water Level (Depth to Water): 6.59 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/08/04	1012		169.21	Initial	71.5	7.15	1.19	210	84	6.21	Cloudy
	1017		7.58	0.2	15.84	7.09	1.25	104	-76	1.73	
	1022		8.96	0.6	14.92	7.08	1.27	161	-77	0.34	
	1027		10.20	1.2	14.77	7.09	1.27	96.4	-66	0.21	
	1032		11.94	1.8	14.86	7.09	1.26	76.1	-66	0.19	
	1037		11.24	2.0	15.40	7.10	1.27	65.1	-63	0.35	
	1042		10.98	2.2	15.27	7.10	1.28	57.8	-65	0.25	
	1047		10.78	2.4	15.27	7.11	1.28	43.7	-66	0.23	
	1052		10.65	2.6	15.30	7.10	1.28	38.5	-64	0.32	
	1057		10.32	2.8	15.56	7.10	1.28	27.3	-61	0.76	
	1102		10.35	3.1	15.83	7.09	1.28	20.1	-52	0.72	
	1107		10.36	3.4	15.93	7.09	1.28	15.3	-59	0.27	
	1112		10.34	3.7	16.07	7.09	1.27	9.4	-61	0.28	
	1121		10.34	Final	15.73	7.11	1.30	3.8	-44	2.92	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: LH 30164 MS/MSD: Split:

Sample Collection Date: 10/08/04 Sample Collection Time: 1115 Prepared by: mChiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/BUILDING 7/45 WELL ID: B79C/D-MW04 SAMPLE NUMBER: LH30165

Samplers: McMiller/Buhl Well Secure (Y/N) X Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/Bladder Pump Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 22 ft. Static Water Level (Depth to Water): N/A unable to take water level due to Bentonite slugs at top of well casing

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/8/04	0904		NA	Initial	14.77	6.45	1.52	22.4	150	5.87	
	0909			0.4	14.62	6.82	1.58	34.1	112	1.07	
	0914			0.7	14.81	6.88	1.58	17.6	65	0.63	
	0919			1.1	15.07	6.94	1.48	14.3	7	0.65	
	0924			1.5	15.21	7.03	1.31	13.2	14	1.14	
	0929			1.8	15.28	7.04	1.35	9.4	10	1.43	
	0934			2.0	15.46	7.04	1.39	11.4	8	1.49	
	0939			2.2	15.56	7.05	1.41	15.6	10	1.60	
	0944			2.4	15.62	7.05	1.42	13.2	14	1.62	
	0946	sample									
	0953		NA	Final	15.50	7.08	1.47	9.4	33	2.87	

Test Parameters (Circle Applicable): QOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/08/04 Sample Collection Time: 0946 Prepared by: McMiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM / 002 WELL ID: NEA-MW27-3I SAMPLE NUMBER: LH30193  
 Samplers: KH, BF Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ BLADDER PUMP Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 45.5 ft. Static Water Level (Depth to Water): 18.02 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO * (mg/L)	Water Description
10/12/04	1413	1.17	18.02	1.17	15.11	7.52	0.729	491.0	73	10.63	cloudy
	1418	0.10	18.02	0.50	14.89	7.02	0.736	16.9	67	5.56	cloudy
	1423	0.10	18.02	1.00	14.50	6.83	0.746	13.9	58	2.59	"
	1428	0.10	18.02	1.50	14.52	6.88	0.749	10.0	3	3.06	"
	1433	0.10	18.02	2.00	14.85	6.97	0.751	9.8	-16	3.96	"
	1438	0.10	18.02	2.50	15.00	6.97	0.754	7.2	-14	3.75	"
	1443	0.10	18.02	3.00	15.08	6.98	0.756	9.1	-12	3.94	"
	1445		SAMPLE			# LH30193					
	1452	FINAL	18.02	FINAL	15.58	7.22	0.758	8.8	13	2.12	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD: Split: DEPA

Sample Collection Date: 10/12/04 Sample Collection Time: 1445 Prepared by: KYCE HAVENS

\* HAD TO USE BLADDER BY-PASS AIR LINE INSTEAD OF BLADDER AIR LINE.

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/0010/042 WELL ID: NEA-MW34-25 SAMPLE NUMBER: LH 30194  
 Samplers: KH, BF Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ BLADDER PUMP Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 18.0 ft. Static Water Level (Depth to Water): 9.68 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/8/04	1034	1.0	9.68	1.0	15.42	7.55	0.664	5.1	73	9.79	CLEAR
	1039	1.0	9.68	0.50	15.29	7.29	0.681	2.1	57	4.53	"
	1044	1.0	9.68	1.00	15.60	7.20	0.665	0	66	5.18	"
	1049	1.0	9.68	1.50	16.87	7.19	0.666	0	69	5.21	"
	1054	1.0	9.68	2.00	16.00	7.19	0.667	0	71	5.34	"
	1059	1.0	9.68	2.50	16.06	7.20	0.669	0	74	5.27	"
	1104	1.0	9.68	3.00	16.15	7.20	0.666	0	77	5.26	"
	1106	SAMPLE #30194									
	1109	Final	9.68	Final	15.10	7.20	0.659	0	88	5.55	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
~~SVOC~~ Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: — MS/MSD: — Split: —

Sample Collection Date: 10/8/04 Sample Collection Time: 1106 Prepared by: KYLE HANDS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM / 003 WELL ID: FTA 2 : MW02C SAMPLE NUMBER: LH30180  
 Samplers: KH, Bu Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ Bladder Pump Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 19.2 ft. Static Water Level (Depth to Water): 14.10 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/21/04	1021	1.12	14.10	1.12	14.72	6.28	0.99	0	-72	2.15	Clear
	1026	0.12	14.10	0.60	14.79	6.48	1.00	0	-110	0.41	"
	1031	0.12	14.10	1.20	14.87	6.59	1.00	0	-123	0.24	"
	1036	0.12	14.10	1.80	14.82	6.65	1.00	0	-129	0.20	"
	1041	0.12	14.10	2.40	14.81	6.71	1.00	1.2	-134	0.19	"
	1046	0.12	14.10	3.00	14.92	6.74	0.99	1.1	-137	0.19	"
	1048	SAMPLE		LH30180							
	1050	FINAL	14.10	FINAL	14.94	6.72	0.99	0	-138	0.57	"

Test Parameters (Circle Applicable): VOC (HCl) SVOC Total Metals (HNO<sub>3</sub>) None Filtered Metals (HNO<sub>3</sub>) None Methane/Ethane/Ethene (HCl) None Sulfate None Nitrate (H<sub>2</sub>SO<sub>4</sub>) None  
 Pesticides / PCBs None Cyanide (NaOH) None Ammonia (H<sub>2</sub>SO<sub>4</sub>) None Dioxin / Furans None Extra Extractable None

QA/QC Samples Taken (Circle Applicable): None Duplicate: None MS/MSD: None Split: None

Sample Collection Date: 10/21/04 Sample Collection Time: 1048 Prepared by: KYLE HARRIS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: 003 | LTM

WELL ID: 07-520-M

SAMPLE NUMBER: LH 30154

Samplers: KH, BF

Well Secure (Y/N) Y

Well Casing Diameter: 4 in.

Purging Method / Equipment: Micropurge/ BLANDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 15.1 ft.

Static Water Level (Depth to Water): 9.13 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/8/04	1243	1.27	9.13	1.27	14.84	6.81	1.20	117.0	-109	4.50	clean
	1248	0.10	9.13	0.50	14.89	6.60	1.16	24.4	-103	1.84	"
	1253	0.10	9.13	1.00	14.97	6.52	1.16	100.2	-101	2.98	"
	1258	0.10	9.13	1.50	15.16	6.48	1.14	11.9	-99	2.97	"
	1303	0.10	9.13	2.00	15.40	6.52	1.14	8.5	-97	2.38	"
	1308	0.10	9.13	2.50	15.49	6.62	1.14	7.7	-99	2.69	"
	1313	0.10	9.13	3.00	15.50	6.64	1.14	4.5	-100	2.35	"
	1315	SAMPLE		# LH 30154							
	1317	FWAL	9.13	FWAL	14.87	6.67	0.987	5.2	-100	3.51	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra-Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/8/04 Sample Collection Time: 1317 Prepared by: KYLE HAVENS





# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: 003 / LTM

WELL ID: 05 - DM - 123I

SAMPLE NUMBER: LH30151

Samplers: KH, BF

Well Secure (Y/N) Y

Well Casing Diameter: 4 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 24.8 ft.

Static Water Level (Depth to Water): 8.32 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
12/12/04	1520	WT	8.32	WT	16.87	7.29	0.792	0	-220	4.32	CLEAR
	1531	0.10	8.32	0.50	14.72	7.02	0.761	0	-142	0	"
	1536	0.10	8.32	1.00	14.67	6.97	0.761	0	-122	0	"
	1541	0.10	8.32	1.50	14.64	6.94	0.759	0	-103	0	"
	1546	0.10	8.32	2.00	14.69	6.92	0.759	0	-90	0	"
	1551	0.10	8.32	2.50	14.62	6.92	0.759	0	-80	0	"
	1556	0.10	8.32	3.00	14.60	6.92	0.759	0	-74	0	"
	1558		SAMPLE	#							
	1603	FINAL	8.32	FINAL	14.75	7.01	0.763	0	-50	7.66	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD: Split: OEPA

Sample Collection Date: 12/12/04 Sample Collection Time: 1558 Prepared by: KYCE HALENS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: 003 / LTM

WELL ID: 05-DM-123D

SAMPLE NUMBER: LH 30150

Samplers: Bfritz / Mchiller

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / Bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 31.8 ft.

Static Water Level (Depth to Water): 7.47 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/21/04	1058		7.58	Initial	14.79	7.39	0.96	0.0	94	6.50	
	1103		7.65	0.4	13.94	7.08	0.97	0.0	-149	0.30	
	1108		7.65	1.0	13.90	7.07	0.98	0.0	-146	0.25	
	1113		7.65	1.4	13.91	7.07	0.98	0.0	-143	0.13	
	1118		7.65	1.8	13.96	7.08	0.98	0.0	-139	0.00	
	1123		7.65	2.2	14.01	7.08	0.98	0.0	-137	0.00	
	1128		7.65	2.7	13.99	7.08	0.97	0.1	-135	0.00	
	1133		7.65	3.2	13.99	7.08	0.97	0.0	-135	0.00	
	1135	sample									
	1141		7.65	Final	14.10	7.10	0.85	0.0	-110	3.16	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate(H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/21/04 Sample Collection Time: 1135 Prepared by: Mchiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/004 WELL ID: BMP-004-01B-60 SAMPLE NUMBER: LH30166  
 Samplers: JP/SW Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ bladder Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 60 ft. Static Water Level (Depth to Water): 8.88 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/8/04	1225		8.88	init	19.76	7.54	1.67	6.5	167	7.05	"floaters"
	1230		8.89	0.5	15.84	7.21	1.50	0	-93	0.59	
	1235		8.88	1.4	15.59	7.08	1.40	5	-73	0.33	
	1240		8.88	1.6	17.28	7.08	1.40	3.6	-65	0.38	
	1245		8.88	1.8	17.91	7.09	1.40	4.0	-62	0.43	
	1250		8.88	2.0	17.38	7.09	1.38	7.2	-55	0.34	
	1255		8.88	2.3	16.99	7.09	1.38	11.4	-47	0.30	
	1300		8.88	2.6	16.70	7.09	1.38	15.3	-43	0.28	
	1302	Collect sample									
	1304		8.88	Anal	16.87	7.15	1.35	0	-5	7.85	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/8/04 Sample Collection Time: 1302 Prepared by: SWH

## Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: 004 / LTM

WELL ID: BMP-004-01C-84

SAMPLE NUMBER: LH 30167

Samplers: JP/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 85 ft.

Static Water Level (Depth to Water): 8.02' ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) MS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/8/04	1323		8.63	init	19.62	7.52	1.12	0	85	5.87	clear
	1328		8.63	0.9	15.66	7.18	1.22	0	-127	1.18	
	1333		8.63	1.1	16.86	7.16	1.24	3.4	-155	0.71	
	1338		8.63	1.5	17.07	7.16	1.24	0	-160	0.65	
	1343		8.63	1.8	17.08	7.17	1.24	0	-162	0.57	
	1348		8.63	2.0	17.16	7.17	1.24	0	-164	0.49	
	1353		8.63	2.2	17.19	7.17	1.24	0.8	-165	0.47	
	1358		8.63	2.4	17.08	7.17	1.24	3.8	-166	0.44	
	1400	Collect sample									
	1405		8.62	final	16.79	7.21	1.29	0	-140	3.62	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate(H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD LH 30167MS Split: LH 30167MSD

Sample Collection Date: 10/8/04 Sample Collection Time: 1400 Prepared by: SWJ

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM / 004

WELL ID: 004-MW-02A

SAMPLE NUMBER: LH30205

Samplers: JP / SW

Well Secure (Y/N) N - hinge broken Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 17 ft.

Static Water Level (Depth to Water): 13.46 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/8/04	0835		13.47	Init	14.51	6.21	1.23	93.9	-19	8.04	red tint (biomass?)
	0840		13.48	0.5	14.72	6.45	1.15	252	-80	1.75	" "
	0845		13.48	1.0	14.81	6.61	1.14	111	-102	3.01	emptied cell - clearing
	0850		13.48	1.5	14.80	6.67	1.14	31.3	-113	0.73	
	0855		13.48	2.0	14.81	6.74	1.14	11.2	-123	0.54	clear
	0900		13.47	2.5	14.81	6.77	1.13	7.1	-128	0.44	
	0905		13.48	3.0	14.83	6.80	1.13	4.5	-132	0.40	
	0907	Collect sample									
	0908		13.48	Anal	14.87	6.85	1.13	0	-124	4.04	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/8/04 Sample Collection Time: 0907 Prepared by: SWH

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM / 004 WELL ID: 004-MW-02B SAMPLE NUMBER: LH30207  
 Samplers: SP/SW Well Secure (Y/N) N-hinge broken Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/bladder Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 56.1 ft. Static Water Level (Depth to Water): 13.15 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) MS/CW	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/9/04	0926		13.15	init	14.27	7.32	0.99	0	-5	9.61	clear
	0931		13.15	0.7	13.64	7.14	1.13	0	3	2.67	
	0936		13.15	1.1	14.04	7.04	1.16	0	3	1.46	
	0941		13.15	1.4	14.02	7.04	1.17	0	10	1.38	
	0946		13.15	2.0	13.75	7.03	1.17	0	14	0.92	
	0951		13.15	2.6	13.94	7.03	1.18	0	16	0.71	
	0956		13.15	2.9	13.96	7.03	1.18	0	19	0.70	
	0958	Collect sample + duplicate									
	1000		13.15	Final	14.05	7.18	1.19	0	90	4.21	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate(H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate LH30206 MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/9/04 Sample Collection Time: 0958 Prepared by: SWJH

# Groundwater Purge Log

WPAFB/ Fairborn, OH  
PROJECT 829564

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SITE ID: 014 WELL ID: 014-mw-03B SAMPLE NUMBER: LH30208  
 Samplers: BWW/mchiller Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/Bladder Pump Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 62 ft. Static Water Level (Depth to Water): 14.31 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/12/04	1254		14.31	Initial	7.68	7.68	1.37	22.1	74	10.95	clear
	1259		14.31	0.8	13.16	7.19	1.53	83.0	80	3.79	checked turbidity in
	1304		14.31	1.4	13.17	6.68	1.52	0.0	121	2.23	cal solution - reads 80.0
	1309		14.31	2.4	13.19	6.92	1.53	0.0	104	1.23	
	1314		14.31	2.5	14.03	6.97	1.52	0.0	96	2.36	
	1319		14.31	2.6	14.75	7.00	1.52	0.0	90	2.52	
	1324		14.31	2.7	15.4	7.02	1.52	0.0	85	2.87	
	1329		14.31	2.8	15.46	7.02	1.52	0.0	82	2.80	
	1331	sample									
	1338		14.31	Final	15.24	7.05	1.52	0.0	93	4.57	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate(H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: Split OEPA

Sample Collection Date: 10/12/04 Sample Collection Time: 1331 Prepared by: mchiller





Shaw Environmental &amp; Infrastructure, Inc.

## Groundwater Purge Log

WPAFB/ Fairborn, OH  
PROJECT 829564Page 1 of 1

SITE ID: LTM 004 WELL ID: 004-MW03-C SAMPLE NUMBER: LH30209  
 Samplers: KH, BU Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ BLADDER PUMP Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 83.5 ft. Static Water Level (Depth to Water): 13.68 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmhos/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/19/04	1047	1.0	13.68	1.0	13.68	7.28	1.48	46.7	119	8.84	clear
	1052	0.10	13.68	0.50	12.80	7.17	1.55	29.9	91	1.11	"
	1057	0.10	13.68	1.00	12.82	7.14	1.53	17.6	64	0.62	"
	1102	0.10	13.68	1.50	12.76	7.14	1.53	12.1	56	0.68	"
	1107	0.10	13.68	2.00	12.89	7.14	1.52	9.8	52	0.67	"
	1112	0.10	13.68	2.50	12.89	7.15	1.52	6.0	51	0.71	"
	1117	0.10	13.68	3.00	13.01	7.15	1.52	8.2	51	0.73	"
	1119	SAMPLE		# LH30209							
	1122	FINAL	13.68	FINAL	12.91	7.27	1.53	9.0	88	4.96	"

Test Parameters (Circle Applicable): VOC (HCl) ~~Total Metals (HNO<sub>3</sub>)~~ ~~Filtered Metals (HNO<sub>3</sub>)~~ ~~Methane/Ethane/Ethene (HCl)~~ ~~Sulfate~~ ~~Nitrate (H<sub>2</sub>SO<sub>4</sub>)~~  
~~SVOC~~ ~~Pesticides / PCBs~~ ~~Cyanide (NaOH)~~ ~~Ammonia (H<sub>2</sub>SO<sub>4</sub>)~~ ~~Dioxin / Furans~~ ~~Extra Extractable~~

QA/QC Samples Taken (Circle Applicable): None Duplicate:        MS/MSD:        Split:       

Sample Collection Date: 10/19/04 Sample Collection Time: 1119 Prepared by: KYLE HAVENS

## Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: LTM/004

WELL ID: 004-mw-048

SAMPLE NUMBER: LH30210

Samplers: 14, 80

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 43.0 ft.

Static Water Level (Depth to Water): 14.02 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/19/04	0921	1.21	14.02	1.21	12.27	6.19	1.51	7999.0	131	4.37	BIO MASS / ORANGE COLOR
	0920	0.50	14.02	2.5	12.22	6.70	1.49	409.0	-20	1.18	" "
	0931	0.30	14.02	4.0	12.20	6.80	1.49	400.0	-27	1.10	" "
	0936	0.20	14.02	5.0	11.94	6.93	1.50	105.0	-21	1.10	" "
	0941	0.05	14.02	5.25	12.17	6.98	1.49	112.0	-19	1.08	" "
	0946	0.05	14.02	5.50	12.14	7.00	1.49	115.0	-12	1.43	" "
	0951	0.10	14.02	6.00	12.10	7.01	1.49	150.0	-9	1.10	" "
	0956	0.10	14.02	6.50	12.10	7.00	1.49	138.0	-5	1.00	" "
	1001	0.10	14.02	7.00	12.02	7.00	1.48	110.0	10	5.45	CLEANED HORIZA CELL
	1000	0.10	14.02	7.50	12.10	7.09	1.49	113.0	-3	1.12	ORANGE COLOR / BIO MASS
	1011	0.10	14.02	8.00	12.18	7.10	1.49	110.0	-5	1.00	" "
	1016	0.10	14.02	8.50	12.18	7.10	1.49	109.0	-7	1.05	" "
	1018	SAMPLE		# LH30210							
	1020	FINAL	14.02	CNML	12.24	7.20	1.49	103.0	34	7.79	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides/PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin/Furans Extra-Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: — MS/MSD: — Split: —

Sample Collection Date: 10/19/04 Sample Collection Time: 1018 Prepared by: KYLE HAVENS

## Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: LTM/004

WELL ID: 004-MW-12B

SAMPLE NUMBER: LH30211

Samplers: SP/SW

Well Secure (Y/N) N - hinge broken

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 49.9 ft.

Static Water Level (Depth to Water): 13.32 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/8/04	1028		13.32	init.	16.04	7.61	0.930	0	128	9.49	
	1033		13.32	0.3	14.68	7.55	0.969	0	131	7.04	
	1038		13.32	1.0	14.31	7.22	0.98	0	120	2.17	
	1043		13.32	1.6	14.66	7.15	0.96	0	98	1.17	
	1048		13.32	2.0	15.72	7.14	0.98	0	77	1.24	
	1053		13.32	2.2	16.02	7.16	0.98	0	72	1.48	
	1058		13.32	2.5	16.12	7.16	0.98	0	68	1.26	
	1100		Collect sample								
	1102		13.32	final	15.73	7.18	1.02	0	86	4.42	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/8/04 Sample Collection Time: 1100 Prepared by: SWH

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/005

WELL ID: CW04-060

SAMPLE NUMBER: LH30174

Samplers: RH, BF

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 59.7 ft.

Static Water Level (Depth to Water): 21.06 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/12/04	1305	1.15	21.06	1.15	12.54	7.85	0.625	72.7	36	9.75	CLEAR / CLOUDY
	1310	0.10	21.06	0.50	12.33	7.21	0.917	227.2	-138	5.70	AIR BUBBLES / CLOUDY
	1315	0.10	21.06	1.00	12.05	6.24	0.928	163.0	-47	6.19	CLEAR / CLOUDY
	1320	0.10	21.06	1.50	11.96	6.79	0.927	496.0	-121	4.08	AIR BUBBLES / CLOUDY
	1325	0.10	21.06	2.00	12.96	6.92	0.914	9.2	-124	2.46	" / "
	1330	0.10	21.06	2.50	13.17	6.99	0.917	1.8	-127	2.65	" / "
	1335	0.10	21.06	3.00	13.27	7.00	0.920	0	-131	6.32	" / "
	1337		SAMPLE	FF	LH30174						
	1341	PUMP	21.06	PUMP	13.47	7.14	0.936	0	-129	7.45	" / "

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD Split: OEPA

Sample Collection Date: 10/12/04 Sample Collection Time: 1337 Prepared by: K. Y. HAVENS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/005

WELL ID: CW05-055

SAMPLE NUMBER: LH30176

Samplers: Switt/McMuller

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ Bladder Pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 57 ft.

Static Water Level (Depth to Water): 23.30 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) MS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/14/04	1502		23.30	Initial	13.41	6.94	1.12	29.3	-137	4.27	
	1507		23.30	0.1	13.19	6.92	1.13	15.8	-139	1.93	
	1512		23.31	0.2	13.16	6.92	1.13	13.1	-137	1.71	
	1517		23.30	0.4	13.01	6.92	1.13	10.7	-136	1.62	
	1522		23.30	0.6	13.06	6.91	1.12	4.5	-133	1.42	
	1527		23.30	0.8	13.50	6.92	1.12	5.1	-135	1.40	
	1532		23.30	1.3	13.31	6.92	1.13	7.3	-134	1.32	
	1537		23.30	1.8	13.34	6.92	1.13	4.7	-135	1.24	
	1542		23.30	2.1	12.98	6.93	1.13	5.8	-134	1.17	
	1547		23.30	2.4	12.75	6.92	1.13	6.2	-135	1.00	
	1552		23.30	2.7	12.71	6.92	1.13	4.2	-134	0.91	
	1555	sample									
	1603		23.30	Final	12.59	6.97	1.11	8.5	-126	4.40	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate(H<sub>2</sub>SO<sub>4</sub>)

SVOC

Pesticides / PCBs

Cyanide (NaOH)

Ammonia (H<sub>2</sub>SO<sub>4</sub>)

Dioxin / Furans

Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: LH30175 MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/14/04 Sample Collection Time: 15.55 Prepared by: McMuller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/045

WELL ID: CW05-85

SAMPLE NUMBER: LH30177

Samplers: KH, BF

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 85.0 ft.

Static Water Level (Depth to Water): 23.38 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/2/04	1050	INT	23.38	INT	12.44	7.46	0.934	35.2	-170	9.75	CLEAR
	1055	0.10	23.38	0.50	12.32	7.01	0.968	18.5	-133	9.76	AIR BUBBLES IN WATER / CLEAR
	1100	0.10	23.38	1.00	12.26	6.88	0.966	13.3	-126	9.11	" / "
	1105	0.10	23.38	1.50	12.32	6.92	0.972	0	-128	8.60	" / "
	1110	0.10	23.38	2.00	12.33	6.95	0.961	0	-128	9.77	" / "
	1115	0.10	23.38	2.50	12.38	6.97	0.971	0	-129	9.48	" / "
	1120	0.10	23.38	3.00	12.33	6.99	0.970	0	-129	9.72	" / "
	1122		SAMPLE # LH30177								
	1125	FINAL	23.38	FINAL	12.69	7.02	0.981	0	-122	8.60	" / "

Test Parameters (Circle Applicable): VOC (HCl) ~~Total Metals (HNO<sub>3</sub>)~~ ~~Filtered Metals (HNO<sub>3</sub>)~~ ~~Methane/Ethane/Ethene (HCl)~~ ~~Sulfate~~ ~~Nitrate (H<sub>2</sub>SO<sub>4</sub>)~~  
~~SVOC~~ ~~Pesticides / PCBs~~ ~~Cyanide (NaOH)~~ ~~Ammonia (H<sub>2</sub>SO<sub>4</sub>)~~ ~~Dioxin / Furans~~ ~~Extra Extractable~~

QA/QC Samples Taken (Circle Applicable): None Duplicate: — MS/MSD: — Split: OEPA

Sample Collection Date: 10/12/04 Sample Collection Time: 1122 Prepared by: KYLE HAVENS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/005 WELL ID: CW07-055 SAMPLE NUMBER: LH30178  
 Samplers: KH, BV Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ BLADDER PUMP Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 55.0 ft. Static Water Level (Depth to Water): 19.25 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/21/04	1100	1WT	19.25	1WT	13.62	7.44	0.897	100.0	-147	6.51	
	1111	0.10	19.25	0.50	12.73	7.16	1.05	37.6	-141	2.35	CLEAR
	1126	0.10	19.25	1.00	12.42	7.07	1.00	9.7	-137	1.91	"
	1134	0.10	19.25	1.50	12.40	7.07	1.00	8.5	-136	1.90	"
	1126	0.10	19.25	2.00	12.38	7.07	1.00	4.1	-136	1.90	"
	1131	0.10	19.25	2.50	12.39	7.07	1.04	3.1	-136	1.95	"
	1130	0.10	19.25	3.00	12.41	7.08	1.04	2.5	-136	1.95	"
	1138	SAMPLE		# LH30178							
	1140	F.MAL	19.25	F.MAL	12.43	7.07	1.04	0	-137	2.80	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
~~SVOC~~ Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/21/04 Sample Collection Time: 1138 Prepared by: KYLE HAVENS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/005

WELL ID: CW16-055

SAMPLE NUMBER: LH30179

Samplers: KH.BF

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 95.0 ft.

Static Water Level (Depth to Water): 24.26 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
12/14/04	1416	1WT	24.26	1WT	13.33	7.33	0.944	89.8	-35	3.93	CLOUDY
	1421	0.08	24.26	0.40	12.66	6.88	0.964	46.4	-94	0.22	"
	1426	0.08	24.26	0.80	12.47	6.80	0.990	18.1	-111	0	CLEARING
	1431	0.08	24.26	1.20	12.42	6.79	0.990	18.1	-116	0	CLEARING
	1436	0.08	24.26	1.60	12.40	6.79	0.999	12.8	-118	0	CLEAR
	1441	0.08	24.26	2.00	12.37	6.79	1.15	9.8	-119	0	"
	1446	0.08	24.26	2.40	12.35	6.79	1.15	8.7	-120	0	"
	1450	0.07	24.26	2.80	12.35	6.80	1.15	7.5	-121	0	"
	1455		SAMPLE								
	1500	FINAL	24.26	FINAL	12.42	6.82	1.16	9.2	-117	4.79	"

Test Parameters (Circle Applicable): VOC (HCl) ~~Total Metals (HNO<sub>3</sub>)~~ ~~Filtered Metals (HNO<sub>3</sub>)~~ ~~Methane/Ethane/Ethene (HCl)~~ ~~Sulfate~~ ~~Nitrate (H<sub>2</sub>SO<sub>4</sub>)~~

~~SVOC~~ ~~Pesticides/PCBs~~ ~~Cyanide (NaOH)~~ ~~Ammonia (H<sub>2</sub>SO<sub>4</sub>)~~ ~~Dioxin/Furans~~ ~~Extra-Extractable~~

QA/QC Samples Taken (Circle Applicable): None Duplicate: — MS/MSD: LH30179 MS Split: —

Sample Collection Date: 12/14/04 Sample Collection Time: 1455 Prepared by: KYLE HAVENS



# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM / 005

WELL ID: HD-11

SAMPLE NUMBER: LH30184

Samplers: KH, BF

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 85.0 ft.

Static Water Level (Depth to Water): 21.40 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/14/04	0850	1.17	21.40	1.17	11.98	6.07	1.17	6.3	-119	2.17	clear
	0855	0.10	21.40	0.50	11.90	6.48	1.20	1.4	-114	0	"
	0900	0.10	21.40	1.00	12.08	6.66	1.21	3.6	-132	0	"
	0905	0.10	21.40	1.50	11.96	6.73	1.19	2.5	-138	0	"
	0910	0.10	21.40	2.00	12.03	6.77	1.19	3.2	-142	0	"
	0915	0.10	21.40	2.50	12.07	6.78	1.19	2.9	-143	0	"
	0920	0.10	21.40	3.00	12.11	6.79	1.18	3.8	-145	0	"
	0922	SAMPLE # LH30184									
	0934	Final	21.40	Final	12.58	6.91	1.21	0	-124	0	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethane (HCl) Sulfate - Nitrate (H<sub>2</sub>SO<sub>4</sub>)

~~SVOC~~

~~Pesticides / PCBs~~

~~Cyanide (NaOH)~~

~~Ammonia (H<sub>2</sub>SO<sub>4</sub>)~~

~~Dioxin / Furans~~

~~Extra Extractable~~

QA/QC Samples Taken (Circle Applicable): None

Duplicate: —

MS/MSD: —

Split: OEPA, CITY OF DAYTON

Sample Collection Date: 10/14/04

Sample Collection Time: 0922

Prepared by: KYLE HAVENS

## Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM / 005

WELL ID: HD-125

SAMPLE NUMBER: LH 30186

Samplers: KH / BF

Well Secure (Y/N) Y

Well Casing Diameter : 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 25.0 ft.

Static Water Level (Depth to Water): Below top of pump ft.

[illegible]

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: CITY OF DAYTON

Sample Collection Date: 10/14/01 Sample Collection Time: 1029 Prepared by: KYLE HANCOCK

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM / 005

WELL ID: HD-12M

SAMPLE NUMBER: LH 30185

Samplers: KH, BF

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 76.0 ft.

Static Water Level (Depth to Water): 21.10 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/14/04	0950	INT	21.10	INT	12.69	7.07	0.906	71.8	-154	7.91	CLOUDY
	0955	0.10	21.10	0.50	11.29	6.79	0.988	0	-127	1.40	CLEAR
	1000	0.10	21.10	1.00	11.58	6.75	0.991	1.4	-124	4.52	"
	1005	0.10	21.10	1.50	11.83	6.74	0.991	0	-125	7.27	"
	1010	0.10	21.10	2.00	11.90	6.74	0.991	0	-126	6.20	"
	1015	0.10	21.10	2.50	11.88	6.74	0.989	0	-127	6.28	"
	1020	0.10	21.10	3.00	11.55	6.77	0.994	0	-126	1.73	"
	1022	SAMPLE FF LH 30185									
	1033	FINAL	21.10	FINAL	11.36	6.81	0.986	0	-116	3.20	"
	(10) 1033										

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
~~SVOC~~ ~~Pesticides / PCBs~~ ~~Cyanide (NaOH)~~ ~~Ammonia (H<sub>2</sub>SO<sub>4</sub>)~~ ~~Dioxin / Furans~~ ~~Extra Extractable~~

QA/QC Samples Taken (Circle Applicable): None Duplicate: — MS/MSD: — Split: CITY OF DAYTON

Sample Collection Date: 10/14/04 Sample Collection Time: 1022 Prepared by: KYLE HAVENS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM 1005

WELL ID: HD-135

SAMPLE NUMBER: LH 30189

Samplers: 12H, BF

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BACKFLOW PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 33.0 ft.

Static Water Level (Depth to Water): 19.07 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/14/04	1151	1.07	19.07	1.07	16.67	7.12	1.16	12.2	-140	16.04	CLEAR
	1150	0.10	19.07	0.50	11.40	6.84	1.17	0	-115	4.98	"
	1201	0.10	19.07	1.00	11.76	6.78	1.17	5.0	-110	3.82	"
	1200	0.10	19.07	1.50	11.89	6.78	1.17	2.2	-108	3.83	"
	1211	0.10	19.07	2.00	11.91	6.79	1.17	3.9	-108	3.87	"
	1210	0.10	19.07	2.50	11.54	6.81	1.17	2.7	-111	4.70	"
	1221	0.10	19.07	3.00	11.57	6.81	1.16	2.8	-111	0.75	"
	1223	SAMPLE		# LH 30189 & LH 30188							
	1240	FINISH	19.07	P.M.H.	16.86	7.02	1.16	0.6	-104	8.48	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
~~SVOC~~ Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra-Extractable

QA/QC Samples Taken (Circle Applicable): None AMBIENT Duplicate: LH 30188 MS/MSD: Split: CITY OF DAYTON

Sample Collection Date: 10/14/04 Sample Collection Time: 1223 Prepared by: KYLE HAVENS



Shaw Environmental & Infrastructure, Inc.

# Groundwater Purge Log

WPAFB/ Fairborn, OH

PROJECT 829564

Page 1 of 1

SITE ID: LTm/OVS

WELL ID: HD-130

SAMPLE NUMBER: 4430187

Samplers: 14H, BF

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 1060 ft.

Static Water Level (Depth to Water): 19.91 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/14/04	1105	1.17	19.91	1.17	11.70	7.57	1.17	0.4	-100	8.75	CLEAR
	1110	0.18	19.91	0.90	11.57	6.94	1.19	0	-137	8.27	SLURRY PUMP
	1115	0.16	19.91	1.40	11.66	6.92	1.21	0	-137	8.73	CLEAR
	1120	0.10	19.91	1.90	11.61	6.91	1.21	0	-138	4.72	"
	1125	0.10	19.91	2.40	11.58	6.91	1.21	0	-139	4.64	"
	1130	0.10	19.91	2.90	11.59	6.91	1.21	0	-140	4.41	"
	1132		SAMPLE	#	LTm/OVS						
	1146	FINISH	19.91	FINISH	11.83	7.05	1.23	2.5	-126	8.15	"

Test Parameters (Circle Applicable): VOC (HCl) SVOC Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD: CITY OF DAYTON Split: CITY OF DAYTON

Sample Collection Date: 10/14/04 Sample Collection Time: 1132 Prepared by: KYLE HAMM

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: LTM 1005

WELL ID: MW 131M

SAMPLE NUMBER: LH 30190

Samplers: Burns/McMiller

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ Bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 608 ft.

Static Water Level (Depth to Water): 116.89 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/14/04	1017	—	17.04	Initial	12.93	7.41	1.04	25.8	-190	8.46	
	1022		16.98	0.3	12.17	7.01	1.07	78.8	-172	1.37	cloudy
	1027		16.98	0.6	12.12	6.83	1.08	31.3	-154	0.80	
	1032		16.98	1.2	12.09	6.80	1.08	27.9	-161	0.28	fine particles
	1037		16.98	1.6	12.10	6.79	1.09	26.4	-166	0.23	
	1042		16.98	2.1	12.11	6.80	1.09	25.1	-170	0.19	
	1047		16.98	2.6	12.12	6.81	1.09	20.6	-174	0.17	
	1052		16.98	3.1	12.14	6.82	1.09	18.3	-176	0.16	
	1057		16.98	3.5	12.14	6.82	1.09	16.7	-178	0.17	
	1100	sample									
	1110		16.98	final	12.24	6.83	1.08	18.2	-145	4.26	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_

Split: DEPA & City of Dayton

Sample Collection Date: 10/14/04

Sample Collection Time: 1100

Prepared by: McMiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: LTM/005

WELL ID: MW1315

SAMPLE NUMBER: LH30191

Samplers: BWU/mchiller

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ Bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 32 ft.

Static Water Level (Depth to Water): NA - obstruction in well unable to get water level

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/14/04	1121		NA	Initial	13.70	7.17	1.02	87.7	-76	7.55	cloudy
	1126		NA	0.2	12.64	6.83	1.10	112	-93	1.04	
	1131		NA	0.4	12.58	6.79	1.10	86.2	-98	1.55	
	1136		NA	0.9	12.48	6.77	1.10	82.7	-103	0.44	
	1141		NA	1.1	12.42	6.77	1.11	81.5	-106	0.38	
	1146		NA	1.3	12.41	6.78	1.11	81.6	-108	0.37	
	1151		NA	1.6	12.42	6.78	1.11	81.2	-109	0.38	
	1156		NA	2.0	12.41	6.78	1.11	79.9	-110	0.36	
	1201		NA	2.2	12.38	6.79	1.11	79.8	-112	0.32	
	1206		NA	2.6	12.46	6.79	1.11	79.6	-112	0.32	
	1208	sample									
	1217		NA	Final	12.21	6.81	1.12	81.8	-94	5.34	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None

Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_

Split: City of Dayton

Sample Collection Date: 10/14/04

Sample Collection Time: 1208

Prepared by: mchiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 005/LTM

WELL ID: MW1325

SAMPLE NUMBER: LH30192

Samplers: BWW/McMiller

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/Bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 48.5 ft.

Static Water Level (Depth to Water): 20.95 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/17/04	0847	—	20.98	Initial	11.91	6.40	1.10	21.2	46	2.62	clear
	0852	0.06	20.98	0.3	11.82	6.60	1.09	12.0	-24	1.68	
	0857	0.10	20.98	0.8	11.79	6.73	1.09	11.2	-45	1.63	
	0902	0.06	20.98	1.1	11.79	6.76	1.09	10.6	-49	1.73	
	0907	0.06	20.98	1.4	11.81	6.79	1.09	15.1	-49	1.65	
	0912	0.08	20.98	1.8	11.81	6.82	1.09	8.9	-46	1.31	
	0917	0.08	20.98	2.2	11.82	6.85	1.09	8.4	-48	1.42	
	0922	0.10	20.98	2.7	11.82	6.86	1.09	9.4	-51	1.72	
	0927	0.08	20.98	2.1	11.82	6.88	1.09	9.6	-54	1.49	
	0930	sample									
	0942	—	20.98	Final	11.65	6.96	1.10	8.7	-14	3.93	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD:

Sample Collection Date: 10/14/04 Sample Collection Time: 0930 Prepared by: McMiller

Split: DEPA & City of Dayton



# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/008

WELL ID: CW03-77

SAMPLE NUMBER: LH30173

Samplers: KH, BF

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLOWDOWN PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): NA 76.8 ft.

Static Water Level (Depth to Water): 25.80 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) MS/CM	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/12/04	0935	1.0T	25.80	1.0T	16.54	7.41	0.685	0	65	6.29	CLEAR
	0940	0.10	25.80	0.50	15.45	7.27	0.626	0	59	2.65	"
	0945	0.10	25.80	1.00	15.53	7.23	0.615	0	55	1.01	"
	0950	0.10	25.80	1.50	15.95	7.23	0.601	0	51	0.26	"
	0955	0.10	25.80	2.00	16.01	7.23	0.597	0	49	0.04	"
	1000	0.10	25.80	2.50	16.02	7.23	0.596	0	49	0	"
	1005	0.10	25.80	3.00	16.05	7.22	0.594	0	48	0	"
	1007	SAMPLE		# LH30173							
	1013	0.10	25.80	3.50	15.99	7.28	0.603	0	66	7.87	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC Pesticides/PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin/Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD Split O EPA

Sample Collection Date: 10/12/04 Sample Collection Time: 1007 Prepared by: Kyle Huns

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM/OU10-CHP4 WELL ID: CHP4-MW01 SAMPLE NUMBER: LH30172  
 Samplers: BF/SW Well Secure (Y/N) Y (water in wellhead) Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/bladder Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 412 ft. Static Water Level (Depth to Water): 26.79 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. <sup>(mV)</sup> <sub>ms/cm</sub>	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/19/04	0945		26.81	Init	15.55	7.29	1.57	61.7	-41	8.43	
	0950		26.81	0.9	15.51	6.96	2.04	93.4	-86	2.87	biomass
	0955		26.81	1.3	15.57	6.96	1.95	31.0	-75	3.60	
	1000		26.81	2.0	15.59	6.94	1.95	20.6	-73	3.83	clearing
	1005		26.81	2.5	15.57	6.94	1.94	16.4	-71	3.61	
	1010		26.81	3.0	15.59	6.93	1.94	11.8	-71	3.57	
	1012	Collect sample									
	1015		26.81	final	15.53	7.01	1.89	14.1	-72	2.15	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate(H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: MS/MSD LH30172 MS LH30172 MSD Split:

Sample Collection Date: 10/19/04 Sample Collection Time: 1012 Prepared by: SWH

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: LTM/0010-CHP4

WELL ID: GR-330

SAMPLE NUMBER: LH30181

Samplers: BEISW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 50.00 ft.

Static Water Level (Depth to Water): 32.53 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/19/04	1044		32.53	INIT	15.60	7.20	1.16	12.2	632	6.71	CLEAR
10/19/04	1049		32.52	0.4	14.72	6.96	1.20	147.0	37	7.15	BIO MASS
10/19/04	1054		32.52	0.9	14.61	6.91	1.21	97.0	32	6.89	CLEARING
10/19/04	1059		32.52	1.1	14.62	6.90	1.20	78.3	31	5.32	CLEARING
10/19/04	1104		32.52	1.6	14.70	6.93	1.21	45.3	30	5.87	CLEARING
10/19/04	1109		32.52	2.0	14.66	6.90	1.18	23.6	32	7.02	CLEAR
10/19/04	1113		32.52	2.3	14.76	6.93	1.20	21.7	26	5.62	CLEAR
12/18/04	1118		32.52	2.9	14.84	6.93	1.19	15.1	25	8.62	CLEAR
10/19/04	1120	COLLECT SAMPLE									
10/19/04	1124		32.52	FINN	14.90	7.01	1.19	14.3	29	7.05	CLEAR

Test Parameters (Circle Applicable): VOC (HCL) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCL) Sulfate Nitrate(H<sub>2</sub>SO<sub>4</sub>)

SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/19/04 Sample Collection Time: 1120 Prepared by: B.F.

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: LTM / 0010

WELL ID: GR-333

SAMPLE NUMBER: LH30182

Samplers: 1/4" B.V.

Well Secure (Y/N) Y

Well Casing Diameter: 4 in.

Purging Method / Equipment: Micropurge/ GRUNDFO'S PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 35.1 ft.

Static Water Level (Depth to Water): 16.47 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. <del>µmS/cm</del> mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
6/20/04	1450	0.20	16.55	1.00	15.56	7.32	1.38	26.6	-4	9.27	CLEAR
	1455	0.30	16.55	1.50	15.25	7.26	1.36	256.0	-27	6.77	BIO MASS / ORANGE
	1500	0.20	16.55	2.50	16.00	7.27	1.35	360.0	-41	8.37	CLEAR / HAZARDOUS CELL / BIO MASS
	1505	0.20	16.55	3.50	16.21	7.24	1.35	300.0	-40	6.75	CLEAR / ORANGE
	1510	0.20	16.55	4.50	15.91	7.24	1.35	210.0	-29	6.80	" / "
	1515	0.20	16.55	5.50	16.11	7.23	1.37	207.0	-24	6.54	" / "
	1520	0.20	16.55	6.50	15.98	7.23	1.37	209.0	-24	6.44	" / "
	1525	0.20	16.55	7.50	15.95	7.23	1.36	203.0	-28	6.47	" / "
	1527		SAMPLE	# LH30182							
	1530	Final	16.55	FINAL	15.80	7.24	1.37	211.0	-40	6.22	" / "

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)

SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/20/04 Sample Collection Time: 1527 Prepared by: KYLE HAVENS



## PROJECT 829564

SITE ID: LTN 10V10

WELL ID: GR-334

SAMPLE NUMBER: LH30193

Samplers: KH, BV

Well Secure (Y/N)

Well Casing Diameter : 4 in.

Purging Method / Equipment: Micropurge/ GRUNDFOSS pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 155.0 ft.

Static Water Level (Depth to Water): 15.76 ft

Test Parameters (Circle Applicable): VOC (HCl) ~~Total Metals (HNO<sub>3</sub>)~~ ~~Filtered Metals (HNO<sub>3</sub>)~~ ~~Methane/Ethane/Ethene (HCl)~~ ~~Sulfate~~ ~~Nitrate (H<sub>2</sub>SO<sub>4</sub>)~~

~~SVOC~~

~~Pesticides / PCBs~~

~~Cyanide (NaOH)~~

~~Ammonia (H<sub>2</sub>SO<sub>4</sub>)~~

~~Dioxin / Furans~~

~~Extra Extractable~~

QA/QC Samples Taken (Circle Applicable): (None) Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/20/04 Sample Collection Time: 1440 Prepared by: KYLE HAYES

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: LTM / 0010

WELL ID: 0010-MW-035

SAMPLE NUMBER: LH30196

Samplers: JP/SW

Well Secure (Y/N) Y (both missing)

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 37.8 ft.

Static Water Level (Depth to Water): 26.23 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/14/04	0950		26.25	init	16.20	7.06	0.776	0	272	8.86	clear
10/14/04	0955		26.23	0.5	15.16	6.92	0.859	0	267	5.7	clear
10/14/04	1000		26.23	1.0	15.10	6.91	0.862	0	264	5.60	clear
	1005		26.23	1.3	15.04	6.92	0.863	0	262	5.41	
	1010		26.23	1.9	15.03	6.92	0.863	0	261	5.36	
	1015		26.23	2.1	15.01	6.93	0.863	0.2	261	5.39	
	1020		26.23	2.5	15.01	6.93	0.863	1.3	260	5.38	
	1025		26.23	2.9	15.04	6.94	0.863	1.6	260	5.39	
	1026		Collect sample								
	1030		26.23	final	15.14	6.99	0.865	0	269	8.46	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate(H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/14/04 Sample Collection Time: 1026 Prepared by: SWH

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM / 0U10

WELL ID: 0U10-MW-065

SAMPLE NUMBER: LH 30198

Samplers: JP/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 62 ft.

Static Water Level (Depth to Water): 26.31 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/14/04	1203		26.31	init	15.31	7.23	0.769	0	18	7.04	clear
	1208		26.32	0.3	15.04	7.05	0.832	0	14	2.76	
	1213		26.31	0.9	15.02	6.96	0.839	0	31	2.69	
	1218		26.33	1.0	14.89	6.94	0.850	0	43	2.58	
	1223		26.32	1.3	14.91	6.93	0.850	0	51	2.52	
	1228		26.32	1.6	14.96	6.94	0.849	0	60	2.49	
	1233		26.32	2.0	14.93	6.94	0.849	0	65	2.45	
	1238		26.32	2.2	14.92	6.94	0.850	0	73	2.36	
	1243		26.34	2.3	14.96	6.94	0.850	0	80	2.40	
	1244	Collect sample									
	1246		26.33	final	14.89	7.02	0.853	0	125	5.84	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/14/04 Sample Collection Time: 1244 Prepared by: SWitt

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: LTM / 0010

WELL ID: 0010-MW-06D

SAMPLE NUMBER: LH30197

Samplers: JP/SW

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 150.1 ft.

Static Water Level (Depth to Water): 28.10 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) <i>ms/cm</i>	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/14/04	1109		28.13	init	15.07	7.20	0.905	0	280	7.11	
	1114		28.14	0.7	14.54	6.94	0.932	14.9	102	3.78	
	1119		28.13	1.0	14.73	6.88	0.938	7.0	-134	1.68	
	1124		28.13	1.1	14.84	6.89	0.932	5.1	-156	1.16	
	1129		28.13	1.7	14.78	6.91	0.928	0	-161	0.91	
	1134		28.13	1.9	15.05	6.92	0.925	0	-163	0.91	
	1139		28.13	2.0	15.05	6.92	0.924	0	-164	0.87	
	1144		28.13	2.3	14.79	6.93	0.922	0	-165	0.76	
	1149		28.13	2.6	14.76	6.93	0.922	0	-166	0.70	
	1150	Collect sample									
	1152		28.13	final	14.78	6.93	0.923	0	-143	5.63	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/14/04 Sample Collection Time: 1150 Prepared by: SWH



# Groundwater Purge Log

WPAFB/ Fairborn, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 0U10

WELL ID: 0U10-mw115

SAMPLE NUMBER: LH 30200

Samplers: Bum / mchiller

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / Bladder Pump

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 63.3 ft.

Static Water Level (Depth to Water): 11.23 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) MS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/12/04	1415		11.22	Initial	16.38	7.47	0.896	19.5	104	5.36	
	1420		11.94	0.1	16.02	7.31	0.949	10.2	106	4.44	
	1425		11.99	0.2	15.98	7.21	0.952	10.9	106	3.72	
	1430		12.00	0.3	15.91	7.17	0.953	1.5	105	3.49	
	1435		12.00	0.4	15.63	7.15	0.955	4.6	104	3.33	
	1440		11.38	0.9	15.51	7.14	0.953	6.0	103	3.25	
	1445		11.38	1.1	15.40	7.14	0.952	7.2	103	3.22	
	1450		11.34	1.3	15.40	7.14	0.951	3.4	102	3.21	
	1455		11.31	1.6	15.30	7.14	0.951	9.4	102	3.20	
	1500		11.31	2.0	15.34	7.14	0.952	3.1	103	3.19	
	1505		11.30	2.3	15.30	7.14	0.952	6.3	104	3.18	
	1510		11.30	2.6	15.27	7.14	0.953	4.2	104	3.19	
	1512	Sample									
	1518		11.30	Final	15.24	7.18	0.954	3.1	112	3.12	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: Split OEPA

Sample Collection Date: 10/12/04 Sample Collection Time: 1512 Prepared by: mchiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: LTM / 0010 WELL ID: 0010-MW-110 SAMPLE NUMBER: LH 30199  
 Samplers: BWW / mchiller Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge / Bladder Pump Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 97.9 ft. Static Water Level (Depth to Water): 11.81 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) <u>ms/cm</u>	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/12/04	1533		11.80	init	15.15	7.41	0.958	10.4	124	5.98	
	1538		11.80	0.6	14.95	7.17	0.965	6.1	120	2.24	
	1543		11.80	1.0	14.86	7.13	0.969	9.8	116	1.66	
	1548		11.80	1.5	14.82	7.12	0.969	1.3	112	1.53	
	1553		11.80	2.0	14.83	7.12	0.969	0.1	110	1.50	
	1558		11.80	2.5	14.78	7.12	0.969	1.0	108	1.48	
1603	1603		11.80	3.0	14.79	7.12	0.969	0.5	106	1.47	
1604	1604	sample									
	1609		11.80	final	14.77	7.13	0.970	0.0	110	5.17	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/12/04 Sample Collection Time: 1604 Prepared by: mchiller

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: LTM / DU10

WELL ID: DU10-MW-19D

SAMPLE NUMBER: LH30201

Samplers: KH, BU

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 82.1 ft.

Static Water Level (Depth to Water): 33.88 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mV) mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/20/04	1547	INT	33.88	1.00	16.41	7.92	0.919	22.7	81	10.07	CH2O2
	1552	0.10	33.88	0.50	14.97	7.51	1.11	19.2	95	5.84	"
	1557	0.10	33.88	1.00	14.83	7.33	1.09	15.7	92	4.81	"
	1602	0.10	33.88	1.50	14.96	7.30	1.10	8.5	90	4.71	"
	1607	0.10	33.88	2.00	15.10	7.28	1.10	8.2	90	4.70	"
	1612	0.10	33.88	2.50	15.12	7.28	1.10	8.1	92	4.73	"
	1617	0.10	33.88	3.00	15.13	7.27	1.10	8.1	94	4.71	"
	1620		SAMPLE	#							
	1622	PUMP	33.88	PUMP	15.09	7.28	1.08	8.0	105	8.80	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
~~SVOC~~ ~~Pesticides / PCBs~~ ~~Cyanide (NaOH)~~ ~~Ammonia (H<sub>2</sub>SO<sub>4</sub>)~~ ~~Dioxin / Furans~~ ~~Extra Extractable~~

QA/QC Samples Taken (Circle Applicable): None Duplicate: — MS/MSD: — Split: —

Sample Collection Date: 10/20/04 Sample Collection Time: 1620 Prepared by: KYLE HAWES

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM / 0U10

WELL ID: 0U10 - MW - 215

SAMPLE NUMBER: LH 30202

Samplers: KH, BF

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge/ BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 25.5 ft.

Static Water Level (Depth to Water): 8.06 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. <del>(µM)</del> mS/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/8/04	0830	1.15	8.06	1.15	14.58	6.20	0.851	95.1	191	9.22	CLEAR
	0835	0.10	8.06	0.50	14.60	6.85	0.809	96.5	160	1.68	EMPTYED / CLEANED HORIZONTAL
	0840	0.10	8.06	1.00	14.69	6.98	0.817	0	154	2.09	CLEAR
	0845	0.10	8.06	1.50	14.66	7.05	0.818	0	149	1.46	"
	0850	0.10	8.06	2.00	14.61	7.08	0.817	0	145	1.32	"
	0855	0.10	8.06	2.50	14.71	7.10	0.814	0	142	1.39	"
	0900	0.10	8.06	3.00	14.84	7.11	0.814	0	140	1.33	"
	0902	SAMPLE # LH 30202									
	0906	PML	8.06	PML	14.92	7.16	0.820	0	142	4.62	"

Test Parameters (Circle Applicable): VOC (HCl) ~~Total Metals (HNO<sub>3</sub>)~~ ~~Filtered Metals (HNO<sub>3</sub>)~~ ~~Methane/Ethane/Ethene (HCl)~~ ~~Sulfate~~ ~~Nitrate (H<sub>2</sub>SO<sub>4</sub>)~~  
~~SVOC~~ ~~Pesticides / PCBs~~ ~~Cyanide (NaOH)~~ ~~Ammonia (H<sub>2</sub>SO<sub>4</sub>)~~ ~~Dioxin / Furans~~ ~~Extra-Extractable~~

QA/QC Samples Taken (Circle Applicable): None Duplicate:            MS/MSD:            Split:           

Sample Collection Date: 10/8/04 Sample Collection Time: 0902 Prepared by: KYU HANANS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM / OV10 WELL ID: OV10 - MW - 255 SAMPLE NUMBER: LH 30204  
 Samplers: JP/SW Well Secure (Y/N) Y Well Casing Diameter: 2 in.  
 Purging Method / Equipment: Micropurge/ bladder Target Purge Volume: 2 gal.  
 Sounding (Depth to Well Bottom): 46 ft. Static Water Level (Depth to Water): 27.19 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µM) ms/cm	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/14/04	0852		27.16	init	17.18	6.03	0.594	0	236	9.33	Clear
	0857		27.17	0.9	14.34	6.48	0.820	0	240	2.71	
	091002		27.15	1.1	14.55	6.62	0.817	1.5	240	2.67	
	091007		27.17	1.5	14.46	6.71	0.823	1.7	239	2.65	
	09121012		27.17	1.9	14.33	6.75	0.822	4.6	240	2.61	
	09171017		27.17	2.2	14.35	6.80	0.821	7.6	239	2.60	
	09221022		27.17	2.6	14.38	6.82	0.821	0	238	2.60	
	09271027		27.18	2.9	14.38	6.83	0.821	0.1	237	2.58	
	09281028		Collect sample & dump								
	09321032		27.17	final	14.48	6.89	0.820	0	253	3.10	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate(H<sub>2</sub>SO<sub>4</sub>)  
 SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate LH 30203 MS/MSD: Split:

Sample Collection Date: 10/14/04 Sample Collection Time: 1028 smw Prepared by: SWH  
0928

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

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SITE ID: LTM / OV10

WELL ID: NEA-MW37-1D

SAMPLE NUMBER: LH30195

Samplers: KH.BF

Well Secure (Y/N) Y

Well Casing Diameter: 2 in.

Purging Method / Equipment: Micropurge / BLADDER PUMP

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 94.6 ft.

Static Water Level (Depth to Water): 9.58 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (µmS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/8/04	0937	1.05	9.58	1.05	14.60	7.54	0.817	0	137	3.14	clear
	0942	0.10	9.58	0.50	14.51	7.18	0.825	42.5	-99	0.02	"
	0947	0.10	9.58	1.00	14.53	7.07	0.841	25.3	-69	0	"
	0952	0.10	9.58	1.50	14.53	7.10	0.842	3.2	-72	0	"
	0957	0.10	9.58	2.00	14.54	7.11	0.842	0	-75	6	"
	1002	0.10	9.58	2.50	14.51	7.12	0.841	0	-77	0	"
	1007	0.10	9.58	3.00	14.56	7.12	0.841	0	-79	0	"
	1009		SAMPLE #								
	1012	0.10	9.58	3.50	14.69	7.10	0.842	0	-72	5.77	"

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate (H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra-Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: — MS/MSD: — Split: —

Sample Collection Date: 10/8/04 Sample Collection Time: 1009 Prepared by: KYUE HAVENS

# Groundwater Purge Log

WPAFB, OH  
PROJECT 829564

Page 1 of 1

SITE ID: 0V10 / LTM-CHP4

WELL ID: 23-578-M

SAMPLE NUMBER: LH30155

Samplers: BF/SW

Well Secure (Y/N) Y

Well Casing Diameter: 4 in.

Purging Method / Equipment: Micropurge/ bladder

Target Purge Volume: 2 gal.

Sounding (Depth to Well Bottom): 41.5 ft.

Static Water Level (Depth to Water): 31.10 ft.

Date	Time (24hr)	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gal)	Temp (C°)	pH	Cond. (mS/cm)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	Water Description
10/10/04	0837		31.10	inst	14.30	6.32	1.82	5.7	177	3.37	
	0842		31.10	0.3	14.76	6.86	1.32	16.4	117	4.84	
	0847		31.10	0.6	14.85	6.96	1.82	15.0	116	3.82	
	0852		31.10	1.1	14.66	6.99	1.83	0.0	117	4.08	
	0857		31.10	1.5	14.60	7.00	1.83	0.0	117	4.39	
	0902		31.10	1.9	14.45	7.01	1.85	0.0	115	4.56	
	0907		31.10	2.1	14.63	7.03	1.84	0.0	114	4.65	
	0912		31.10	2.5	14.67	6.97	1.84	0.0	113	4.93	
	0917		31.10	3.0	14.76	7.05	1.83	0.0	112	5.39	
	0918	Collect sample									
	0920		31.10	final	14.81	7.10	1.81	0.0	116	9.19	

Test Parameters (Circle Applicable): VOC (HCl) Total Metals (HNO<sub>3</sub>) Filtered Metals (HNO<sub>3</sub>) Methane/Ethane/Ethene (HCl) Sulfate Nitrate(H<sub>2</sub>SO<sub>4</sub>)  
SVOC Pesticides / PCBs Cyanide (NaOH) Ammonia (H<sub>2</sub>SO<sub>4</sub>) Dioxin / Furans Extra Extractable

QA/QC Samples Taken (Circle Applicable): None Duplicate: \_\_\_\_\_ MS/MSD: \_\_\_\_\_ Split: \_\_\_\_\_

Sample Collection Date: 10/10/04 Sample Collection Time: 0918 Prepared by: SWJ

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: 05-DM-123D

Task: 04200300

Sample Number: LH30150

Collection Date: 21-OCT-04

Sample Name: 05-DM-123D-GW-LH30150-REG

Collection Time: 11:35

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Containers					
Analytical Suite	Flt	Frtn	Qty	Size	Units Type
VOC	N	A	3	40	ML VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_





Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041012

Location Code: 05-DM-123I

Task: 04200300

Sample Number: LH30151

Collection Date: 12-OCT-04

Sample Name: 05-DM-123I-GW-LH30151-REG

Collection Time: 15:58

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

## Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
------------------	-----	------	-----	------	-------	------

VOC	N	A	3	40	ML	VOA Vial
-----	---	---	---	----	----	----------

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: 05-DM-123S

Task: 04200300

Sample Number: LH30152

Collection Date: 21-OCT-04

Sample Name: 05-DM-123S-GW-LH30152-FD

Collection Time: 10:40

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: FD

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					Type
	Flt	Frtn	Qty	Size	Units	
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: 05-DM-123S

Task: 04200300

Sample Number: LH30153

Collection Date: 21-OCT-04

Sample Name: 05-DM-123S-GW-LH30153-REG

Collection Time: 10:40

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					Units	Type
	Flt	Frtn	Qty	Size			
VOC	N	A	3	40	ML	VOA	Vial

ERPIMS Values:

Sucode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041008**

*Location Code:* **07-520-M**

*Task:* **04200300**

*Sample Number:* **LH30154**

*Collection Date:* **08-OCT-04**

*Sample Name:* **07-520-M-GW-LH30154-REG**

*Collection Time:* **13:17**

*Sampling Method:* **BP**

*Start Depth:*

*Sample Type:* **GW**

*Sample Purpose:* **REG**

*End Depth:*

*Sample Matrix:* **WG**

*Sample Team:*

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

*ERPIMS Values:*

*Sacode:*

*Lot Control#:*

**Comments:**

**Sketch Location:**

*Logged BY / Date:* \_\_\_\_\_

*Reviewed BY / Date:* \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: 23-578-M

Task: 04200300

Sample Number: LH30155

Collection Date: 19-OCT-04

Sample Name: 23-578-M-GW-LH30155-REG

Collection Time: 09:18

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041015

Location Code: B59-MW01

Task: 04200300

Sample Number: LH30156

Collection Date: 15-OCT-04

Sample Name: B59-MW01-GW-LH30156-REG

Collection Time: 10:47

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Secode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041012

Location Code: B59-MW02

Task: 04200300

Sample Number: LH30157

Collection Date: 12-OCT-04

Sample Name: B59-MW02-GW-LH30157-REG

Collection Time: 11:10

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Secode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041012

Location Code: B59-MW03

Task: 04200300

Sample Number: LH30158

Collection Date: 12-OCT-04

Sample Name: B59-MW03-GW-LH30158-REG

Collection Time: 09:28

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041015

Location Code: B59-MW04

Task: 04200300

Sample Number: LH30159

Collection Date: 15-OCT-04

Sample Name: B59-MW04-GW-LH30159-FD

Collection Time: 11:21

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: FD

End Depth:

Sample Matrix: WG

Sample Team:

Containers					
Analytical Suite	Flt	Frtn	Qty	Size	Units Type
VOC	N	A	3	40	ML VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041015**

*Location Code:* **B59-MW04**

*Task:* **04200300**

*Sample Number:* **LH30160**

*Collection Date:* **15-OCT-04**

*Sample Name:* **B59-MW04-GW-LH30160-REG**

*Collection Time:* **11:21**

*Sampling Method:* **BP**

*Start Depth:*

*Sample Type:* **GW**

*Sample Purpose:* **REG**

*End Depth:*

*Sample Matrix:* **WG**

*Sample Team:*

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

*ERPIMS Values:*

*Sacode:*

*Lot Control#:*

**Comments:**

**Sketch Location:**

*Logged BY / Date:* \_\_\_\_\_

*Reviewed BY / Date:* \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041008

Location Code: B79C/D-MW01

Task: 04200300

Sample Number: LH30161

Collection Date: 08-OCT-04

Sample Name: B79C/D-MW01-GW-LH30161-REG

Collection Time: 12:20

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041012

Location Code: B79C/D-MW02

Task: 04200300

Sample Number: LH30162

Collection Date: 12-OCT-04

Sample Name: B79C/D-MW02-GW-LH30162-REG

Collection Time: 10:12

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					Type
	Flt	Frtn	Qty	Size	Units	
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041008

Location Code: B79C/D-MW03

Task: 04200300

Sample Number: LH30163

Collection Date: 08-OCT-04

Sample Name: B79C/D-MW03-GW-LH30163-FD

Collection Time: 11:15

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: FD

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **LH041008**

Location Code: **B79C/D-MW03**

Task: **04200300**

Sample Number: **LH30164**

Collection Date: **08-OCT-04**

Sample Name: **B79C/D-MW03-GW-LH30164-REG**

Collection Time: **11:15**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041008

Location Code: B79C/D-MW04

Task: 04200300

Sample Number: LH30165

Collection Date: 08-OCT-04

Sample Name: B79C/D-MW04-GW-LH30165-REG

Collection Time: 09:46

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					Units	Type
	Flt	Frtn	Qty	Size			
VOC	N	A	3	40	ML	VOA	Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041008

Location Code: BMP-OU4-01B-60

Task: 04200300

Sample Number: LH30166

Collection Date: 08-OCT-04

Sample Name: BMP-OU4-01B-60-GW-LH30166-REG

Collection Time: 13:02

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **LH041008**

Location Code: **BMP-OU4-01C-84**

Task: **04200300**

Sample Number: **LH30167**

Collection Date: **08-OCT-04**

Sample Name: **BMP-OU4-01C-84-GW-LH30167-REG**

Collection Time: **14:00**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041008

Location Code: BMP-OU4-01C-84

Task: 04200300

Sample Number: LH30167MS

Collection Date: 08-OCT-04

Sample Name: BMP-OU4-01C-84-GW-LH30167MS-MS

Collection Time: 14:00

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: MS

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Swcode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041008

Location Code: BMP-OU4-01C-84

Task: 04200300

Sample Number: LH30167MSD

Collection Date: 08-OCT-04

Sample Name: BMP-OU4-01C-84-GW-LH30167MSD-MSD

Collection Time: 14:00

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: MSD

End Depth:

Sample Matrix: WG

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: BS5-P-1

Task: 04200300

Sample Number: LH30168

Collection Date: 19-OCT-04

Sample Name: BS5-P-1-GW-LH30168-REG

Collection Time: 14:40

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: BS5-P-2

Task: 04200300

Sample Number: LH30169

Collection Date: 19-OCT-04

Sample Name: BS5-P-2-GW-LH30169-REG

Collection Time: 13:52

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: BS5-P-3

Task: 04200300

Sample Number: LH30170

Collection Date: 19-OCT-04

Sample Name: BS5-P-3-GW-LH30170-REG

Collection Time: 13:51

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: BS5-P-4

Task: 04200300

Sample Number: LH30171

Collection Date: 19-OCT-04

Sample Name: BS5-P-4-GW-LH30171-REG

Collection Time: 14:37

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: CHP4-MW01

Task: 04200300

Sample Number: LH30172

Collection Date: 19-OCT-04

Sample Name: CHP4-MW01-GW-LH30172-REG

Collection Time: 10:12

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: **CHP4-MW01**

Task: **04200300**

Sample Number: **LH30172MS**

Collection Date: **19-OCT-04**

Sample Name: **CHP4-MW01-GW-LH30172MS-MS**

Collection Time: **10:12**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **MS**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: **CHP4-MW01**

Task: **04200300**

Sample Number: **LH30172MSD**

Collection Date: **19-OCT-04**

Sample Name: **CHP4-MW01-GW-LH30172MSD-MSD**

Collection Time: **10:12**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **MSD**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					Type
	Flt	Frtn	Qty	Size	Units	
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041012

Location Code: CW03-77

Task: 04200300

Sample Number: LH30173

Collection Date: 12-OCT-04

Sample Name: CW03-77-GW-LH30173-REG

Collection Time: 10:07

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041012

Location Code: CW04-060

Task: 04200300

Sample Number: LH30174

Collection Date: 12-OCT-04

Sample Name: CW04-060-GW-LH30174-REG

Collection Time: 13:37

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041014

Location Code: CW05-055

Task: 04200300

Sample Number: LH30175

Collection Date: 14-OCT-04

Sample Name: CW05-055-GW-LH30175-FD

Collection Time: 15:55

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: FD

End Depth:

Sample Matrix: WG

Sample Team:

## Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
------------------	-----	------	-----	------	-------	------

VOC	N	A	3	40	ML	VOA Vial
-----	---	---	---	----	----	----------

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041014

Location Code: CW05-055

Task: 04200300

Sample Number: LH30176

Collection Date: 14-OCT-04

Sample Name: CW05-055-GW-LH30176-REG

Collection Time: 15:55

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					Units	Type
	Flt	Frtn	Qty	Size			
VOC	N	A	3	40	ML	VOA	Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041012**

*Location Code:* **CW05-085**

*Task:* **04200300**

*Sample Number:* **LH30177**

*Collection Date:* **12-OCT-04**

*Sample Name:* **CW05-085-GW-LH30177-REG**

*Collection Time:* **11:22**

*Sampling Method:* **BP**

*Start Depth:*

*Sample Type:* **GW**

*Sample Purpose:* **REG**

*End Depth:*

*Sample Matrix:* **WG**

*Sample Team:*

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

*ERPIMS Values:*

*Sacode:*

*Lot Control#:*

**Comments:**

**Sketch Location:**

*Logged BY / Date:* \_\_\_\_\_

*Reviewed BY / Date:* \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: CW07-055

Task: 04200300

Sample Number: LH30178

Collection Date: 21-OCT-04

Sample Name: CW07-055-GW-LH30178-REG

Collection Time: 11:38

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sample:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_





Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041014

Location Code: CW10-055

Task: 04200300

Sample Number: LH30179

Collection Date: 14-OCT-04

Sample Name: CW10-055-GW-LH30179-REG

Collection Time: 14:55

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Containers					
Analytical Suite	Flt	Frtn	Qty	Size	Units Type
VOC	N	A	3	40	ML VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041014

Location Code: CW10-055

Task: 04200300

Sample Number: LH30179MS

Collection Date: 14-OCT-04

Sample Name: CW10-055-GW-LH30179MS-MS

Collection Time: 14:55

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: MS

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041014

Location Code: CW10-055

Task: 04200300

Sample Number: LH30179MSD

Collection Date: 14-OCT-04

Sample Name: CW10-055-GW-LH30179MSD-MSD

Collection Time: 14:55

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: MSD

End Depth:

Sample Matrix: WG

Sample Team:

## Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:



Shaw E & I, Inc.

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: FTA2:MW02C

Task: 04200300

Sample Number: LH30180

Collection Date: 21-OCT-04

Sample Name: FTA2:MW02C-GW-LH30180-REG

Collection Time: 10:48

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041019\_21**

Location Code: **GR-330**

Task: **04200300**

Sample Number: **LH30181**

Collection Date: **19-OCT-04**

Sample Name: **GR-330-GW-LH30181-REG**

Collection Time: **11:20**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: GR-333

Task: 04200300

Sample Number: LH30182

Collection Date: 20-OCT-04

Sample Name: GR-333-GW-LH30182-REG

Collection Time: 15:27

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041019\_21**

*Location Code:* **GR-334**

*Task:* **04200300**

*Sample Number:* **LH30183**

*Collection Date:* **20-OCT-04**

*Sample Name:* **GR-334-GW-LH30183-REG**

*Collection Time:* **14:40**

*Sampling Method:* **BP**

*Start Depth:*

*Sample Type:* **GW**

*Sample Purpose:* **REG**

*End Depth:*

*Sample Matrix:* **WG**

*Sample Team:*

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

*ERPIMS Values:*

*Sacode:*

*Lot Control#:*

**Comments:**

**Sketch Location:**

*Logged BY / Date:* \_\_\_\_\_

*Reviewed BY / Date:* \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041014**

Location Code: **HD-11**

Task: **04200300**

Sample Number: **LH30184**

Collection Date: **14-OCT-04**

Sample Name: **HD-11-GW-LH30184-REG**

Collection Time: **09:22**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041014

Location Code: **HD-12M**

Task: **04200300**

Sample Number: **LH30185**

Collection Date: **14-OCT-04**

Sample Name: **HD-12M-GW-LH30185-REG**

Collection Time: **10:22**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041014**

Location Code: **HD-12S**

Task: **04200300**

Sample Number: **LH30186**

Collection Date: **14-OCT-04**

Sample Name: **HD-12S-GW-LH30186-REG**

Collection Time: **10:39**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041014

Location Code: **HD-13D**

Task: **04200300**

Sample Number: **LH30187**

Collection Date: **14-OCT-04**

Sample Name: **HD-13D-GW-LH30187-REG**

Collection Time: **11:32**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041014**

Location Code: **HD-13S**

Task: **04200300**

Sample Number: **LH30188**

Collection Date: **14-OCT-04**

Sample Name: **HD-13S-GW-LH30188-AB**

Collection Time: **12:23**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **AB**

End Depth:

Sample Matrix: **WG**

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041014**

Location Code: **HD-13S**

Task: **04200300**

Sample Number: **LH30189**

Collection Date: **14-OCT-04**

Sample Name: **HD-13S-GW-LH30189-REG**

Collection Time: **12:23**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					Units	Type
	Flt	Frtn	Qty	Size			
VOC	N	A	3	40	ML	VOA	Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



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# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041014

Location Code: MW131M

Task: 04200300

Sample Number: LH30190

Collection Date: 14-OCT-04

Sample Name: MW131M-GW-LH30190-REG

Collection Time: 11:00

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041014**

Location Code: **MW131S**

Task: **04200300**

Sample Number: **LH30191**

Collection Date: **14-OCT-04**

Sample Name: **MW131S-GW-LH30191-REG**

Collection Time: **12:08**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041014**

*Location Code:* **MW132S**

*Task:* **04200300**

*Sample Number:* **LH30192**

*Collection Date:* **14-OCT-04**

*Sample Name:* **MW132S-GW-LH30192-REG**

*Collection Time:* **09:30**

*Sampling Method:* **BP**

*Start Depth:*

*Sample Type:* **GW**

*Sample Purpose:* **REG**

*End Depth:*

*Sample Matrix:* **WG**

*Sample Team:*

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

*ERPIMS Values:*

*Sacode:*

*Lot Control#:*

**Comments:**

**Sketch Location:**

*Logged BY / Date:* \_\_\_\_\_

*Reviewed BY / Date:* \_\_\_\_\_





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# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041012

Location Code: NEA-MW27-3I

Task: 04200300

Sample Number: LH30193

Collection Date: 12-OCT-04

Sample Name: NEA-MW27-3I-GW-LH30193-REG

Collection Time: 14:45

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041008**

Location Code: **NEA-MW34-2S**

Task: **04200300**

Sample Number: **LH30194**

Collection Date: **08-OCT-04**

Sample Name: **NEA-MW34-2S-GW-LH30194-REG**

Collection Time: **11:06**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



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# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041008

Location Code: NEA-MW37-1D

Task: 04200300

Sample Number: LH30195

Collection Date: 08-OCT-04

Sample Name: NEA-MW37-1D-GW-LH30195-REG

Collection Time: 10:09

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041014

Location Code: OU10-MW-03S

Task: 04200300

Sample Number: LH30196

Collection Date: 14-OCT-04

Sample Name: OU10-MW-03S-GW-LH30196-REG

Collection Time: 10:26

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041014

Location Code: OU10-MW-06D

Task: 04200300

Sample Number: LH30197

Collection Date: 14-OCT-04

Sample Name: OU10-MW-06D-GW-LH30197-REG

Collection Time: 11:50

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041014**

*Location Code:* **OU10-MW-06S**

*Task:* **04200300**

*Sample Number:* **LH30198**

*Collection Date:* **14-OCT-04**

*Sample Name:* **OU10-MW-06S-GW-LH30198-REG**

*Collection Time:* **12:44**

*Sampling Method:* **BP**

*Start Depth:*

*Sample Type:* **GW**

*Sample Purpose:* **REG**

*End Depth:*

*Sample Matrix:* **WG**

*Sample Team:*

Analytical Suite	Containers					Units	Type
	Flt	Frtn	Qty	Size			
VOC	N	A	3	40	ML	VOA	Vial

*ERPIMS Values:*

*Sacode:*

*Lot Control#:*

**Comments:**

**Sketch Location:**

*Logged BY / Date:* \_\_\_\_\_

*Reviewed BY / Date:* \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041012

Location Code: OU10-MW-11D

Task: 04200300

Sample Number: LH30199

Collection Date: 12-OCT-04

Sample Name: OU10-MW-11D-GW-LH30199-REG

Collection Time: 16:04

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041012**

*Location Code:* **OU10-MW-11S**

*Task:* **04200300**

*Sample Number:* **LH30200**

*Collection Date:* **12-OCT-04**

*Sample Name:* **OU10-MW-11S-GW-LH30200-REG**

*Collection Time:* **15:12**

*Sampling Method:* **BP**

*Start Depth:*

*Sample Type:* **GW**

*Sample Purpose:* **REG**

*End Depth:*

*Sample Matrix:* **WG**

*Sample Team:*

Analytical Suite	Containers					Units	Type
	Flt	Frtn	Qty	Size			
VOC	N	A	3	40	ML	VOA	Vial

*ERPIMS Values:*

*Sacode:*

*Lot Control#:*

**Comments:**

**Sketch Location:**

*Logged BY / Date:* \_\_\_\_\_

*Reviewed BY / Date:* \_\_\_\_\_



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041019\_21**

*Location Code:* **OU10-MW-19D**

*Task:* **04200300**

*Sample Number:* **LH30201**

*Collection Date:* **20-OCT-04**

*Sample Name:* **OU10-MW-19D-GW-LH30201-REG**

*Collection Time:* **16:20**

*Sampling Method:* **BP**

*Start Depth:*

*Sample Type:* **GW**

*Sample Purpose:* **REG**

*End Depth:*

*Sample Matrix:* **WG**

*Sample Team:*

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

*ERPIMS Values:*

*Sacode:*

*Lot Control#:*

**Comments:**

**Sketch Location:**

*Logged BY / Date:* \_\_\_\_\_

*Reviewed BY / Date:* \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **LH041008**

Location Code: **OU10-MW-21S**

Task: **04200300**

Sample Number: **LH30202**

Collection Date: **08-OCT-04**

Sample Name: **OU10-MW-21S-GW-LH30202-REG**

Collection Time: **09:02**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **LH041014**

Location Code: **OU10-MW-25S**

Task: **04200300**

Sample Number: **LH30203**

Collection Date: **14-OCT-04**

Sample Name: **OU10-MW-25S-GW-LH30203-FD**

Collection Time: **09:28**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **FD**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					Units	Type
	Flt	Frtn	Qty	Size			
VOC	N	A	3	40	ML	VOA	Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **LH041014**

Location Code: **OU10-MW-25S**

Task: **04200300**

Sample Number: **LH30204**

Collection Date: **14-OCT-04**

Sample Name: **OU10-MW-25S-GW-LH30204-REG**

Collection Time: **09:28**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041008

Location Code: OU4-MW-02A

Task: 04200300

Sample Number: LH30205

Collection Date: 08-OCT-04

Sample Name: OU4-MW-02A-GW-LH30205-REG

Collection Time: 09:07

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



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# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041008

Location Code: OU4-MW-02B

Task: 04200300

Sample Number: LH30206

Collection Date: 08-OCT-04

Sample Name: OU4-MW-02B-GW-LH30206-FD

Collection Time: 09:58

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: FD

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041008

Location Code: **OU4-MW-02B**

Task: **04200300**

Sample Number: **LH30207**

Collection Date: **08-OCT-04**

Sample Name: **OU4-MW-02B-GW-LH30207-REG**

Collection Time: **09:58**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



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# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041012

Location Code: OU4-MW-03B

Task: 04200300

Sample Number: LH30208

Collection Date: 12-OCT-04

Sample Name: OU4-MW-03B-GW-LH30208-REG

Collection Time: 13:31

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Secode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: OU4-MW-03C

Task: 04200300

Sample Number: LH30209

Collection Date: 19-OCT-04

Sample Name: OU4-MW-03C-GW-LH30209-REG

Collection Time: 11:19

Sampling Method: BP

Start Depth:

Sample Type: GW

Sample Purpose: REG

End Depth:

Sample Matrix: WG

Sample Team:

Analytical Suite	Containers					
	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041019\_21**

*Location Code:* **OU4-MW-04B**

*Task:* **04200300**

*Sample Number:* **LH30210**

*Collection Date:* **19-OCT-04**

*Sample Name:* **OU4-MW-04B-GW-LH30210-REG**

*Collection Time:* **10:18**

*Sampling Method:* **BP**

*Start Depth:*

*Sample Type:* **GW**

*Sample Purpose:* **REG**

*End Depth:*

*Sample Matrix:* **WG**

*Sample Team:*

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	A	3	40	ML	VOA Vial

*ERPIMS Values:*

*Sacode:*

*Lot Control#:*

**Comments:**

**Sketch Location:**

*Logged BY / Date:* \_\_\_\_\_

*Reviewed BY / Date:* \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

**RFA / COC Number: LH041008**

Location Code: **OU4-MW-12B**

Task: **04200300**

Sample Number: **LH30211**

Collection Date: **08-OCT-04**

Sample Name: **OU4-MW-12B-GW-LH30211-REG**

Collection Time: **11:00**

Sampling Method: **BP**

Start Depth:

Sample Type: **GW**

Sample Purpose: **REG**

End Depth:

Sample Matrix: **WG**

Sample Team:

Analytical Suite	Containers				Units	Type
	Flt	Frtn	Qty	Size		
VOC	N	A	3	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

829564 WPAFB

Manager: Joe Tyburski

RFA / COC Number: LH041008

Location Code: FIELDQC

Task: 04200300

Sample Number: LH30212

Collection Date: 08-OCT-04

Sample Name: FIELDQC-WA-LH30212-TB

Collection Time: 07:50

Sampling Method: G

Start Depth:

Sample Type: WA

Sample Purpose: TB

End Depth:

Sample Matrix: W

Sample Team:

Containers						
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOC	N	a	2	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041012

Location Code: **FIELDQC**

Task: **04200300**

Sample Number: **LH30213**

Collection Date: **12-OCT-04**

Sample Name: **FIELDQC-WA-LH30213-TB**

Collection Time: **07:40**

Sampling Method: **G**

Start Depth:

Sample Type: **WA**

Sample Purpose: **TB**

End Depth:

Sample Matrix: **W**

Sample Team:

Containers					
Analytical Suite	Flt	Frtn	Qty	Size	Units Type
VOC	N	a	2	40	ML VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: **LH041014**

Location Code: **FIELDQC**

Task: **04200300**

Sample Number: **LH30214**

Collection Date: **14-OCT-04**

Sample Name: **FIELDQC-WA-LH30214-TB**

Collection Time: **07:40**

Sampling Method: **G**

Start Depth:

Sample Type: **WA**

Sample Purpose: **TB**

End Depth:

Sample Matrix: **W**

Sample Team:

Analytical Suite	Containers					Type
	Flt	Frtn	Qty	Size	Units	
VOC	N	A	2	40	ML	VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041015

Location Code: **FIELDQC**

Task: **04200300**

Sample Number: **LH30215**

Collection Date: **15-OCT-04**

Sample Name: **FIELDQC-WA-LH30215-TB**

Collection Time: **07:50**

Sampling Method: **G**

Start Depth:

Sample Type: **WA**

Sample Purpose: **TB**

End Depth:

Sample Matrix: **W**

Sample Team:

Containers					
Analytical Suite	Flt	Frtn	Qty	Size	Units Type
VOC	N	a	2	40	ML VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

**Comments:**

**Sketch Location:**

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: FIELDQC

Task: 04200300

Sample Number: LH30216

Collection Date: 19-OCT-04

Sample Name: FIELDQC-WA-LH30216-TB

Collection Time: 07:40

Sampling Method: G

Start Depth:

Sample Type: WA

Sample Purpose: TB

End Depth:

Sample Matrix: W

Sample Team:

Containers					
Analytical Suite	Flt	Frtn	Qty	Size	Units Type
VOC	N	a	2	40	ML VOA Vial

ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_



# Sample Collection Log

**829564 WPAFB**

Manager: Joe Tyburski

RFA / COC Number: LH041019\_21

Location Code: **FIELDQC**

Task: **04200300**

Sample Number: **LH30217**

Collection Date: **21-OCT-04**

Sample Name: **FIELDQC-WA-LH30217-TB**

Collection Time: **07:40**

Sampling Method: **G**

Start Depth:

Sample Type: **WA**

Sample Purpose: **TB**

End Depth:

Sample Matrix: **W**

Sample Team:

Containers					
Analytical Suite	Flt	Frtn	Qty	Size	Units Type
VOC	N	a	2	40	ML VOA Vial

~ERPIMS Values:

Sacode:

Lot Control#:

Comments:

Sketch Location:

Logged BY / Date: \_\_\_\_\_

Reviewed BY / Date: \_\_\_\_\_

**Bill of Lading – Perma-Fix**

**October 2004**

**PermaFix**  
environmental services

48149

300 S. WEST END AVENUE DAYTON, OH 45427  
TEL: 937/268-6501

Ohio Toll Free: 1-800-762-3602  
National Toll Free: 1-800-543-3670

A U.S. E.P.A. Identified Used Oil Recycling and Marketing Facility • OHD004274031

DRIVER Mike Jensen DATE 1-13-05  
TRUCK # 298 PHONE # \_\_\_\_\_  
NAME WPAFB  
STREET Shaw E+I trailer  
CITY Fairborn, Ohio ZIP CODE \_\_\_\_\_  
CASH ☐ CHARGE ☐ NO CHARGE ☐

OIL, NOS COMBUSTIBLE, LIQUID		Unit Price		
350	gal. wastewater picked up			
THANK YOU Present this bill with claims				

We/I certify that the above identified materials are classified as non-regulated materials and/or are suitable for recycling in accordance with 40CFR279 and have not been mixed with any listed hazardous constituent. We further agree to pay our invoices when they come due, or to pay all of sellers' costs of collection in the event any legal action is required to collect any indebtedness.

PRINT NAME: Greg Plamondon  
SIGNATURE: [Signature]

## **Appendix I**

### **Basewide LTM Chain of Custody Records**

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms***

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: LH041008

Page 1 of 2

Project Number: 829564

Samples Shipment Date: 08 OCT 2004

Bill To: Greg Plamondon

Project Name: WPAFB

Lab Destination: Severn Trent Lab

5050 Section Ave

Norwood

OH 45212

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon

5050 Section Ave

Norwood

OH 45212

Turnaround Time: *normal*

Project Contact: Denise Pohl

Carrier/Waybill No.: Relinquished to STL/ Cincinnati

## Special Instructions:

### Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

### Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By  
(Signature/Affiliation)

Date: *10/08/04*  
Time:

1. Received By  
(Signature/Affiliation)

Date: *10/8/04*  
Time: *1600*

2. Relinquished By  
(Signature/Affiliation)

Date: *10/08/04*  
Time: *1620*

2. Received By  
(Signature/Affiliation)

Date: *10/9/04*  
Time: *955*

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File CID	QC Lvl	Condition On Receipt
LH30154	07-520-M-GW-LH30154-REG	08 OCT 2004	13:17	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N	D	
LH30161	079C/D-MW01-GW-LH30161-REG	08 OCT 2004	12:20	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N	D	
LH30163	079C/D-MW03-GW-LH30163-FD	08 OCT 2004	11:15	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N	D	
LH30164	079C/D-MW03-GW-LH30164-REG	08 OCT 2004	11:15	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N	D	
LH30165	079C/D-MW04-GW-LH30165-REG	08 OCT 2004	09:46	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N	D	
LH30166	BMP-OU4-01B-60-GW-LH30166-REG	08 OCT 2004	13:02	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N	D	
LH30167	BMP-OU4-01C-84-GW-LH30167-REG	08 OCT 2004	14:00	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N	D	
LH30167MS	BMP-OU4-01C-84-GW-LH30167MS-MS	08 OCT 2004	14:00	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N	D	

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: LH041008

Page 2 of 2

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Flt	CID	QC Lvl	Condition On Receipt
LH30167MSD	BMP-OU4-01C-84-GW-LH30167MSD-MS	08 OCT 2004	14:00	40 ML VOA Vial	3 HCl<ph 2	VOC by EPA 8260B with MTBE	N		D	
LH30194	NEA-MW34-2S-GW-LH30194-REG	08 OCT 2004	11:06	40 ML VOA Vial	3 HCl<ph 2	VOC by EPA 8260B with MTBE	N		D	
LH30195	NEA-MW37-1D-GW-LH30195-REG	08 OCT 2004	10:09	40 ML VOA Vial	3 HCl<ph 2	VOC by EPA 8260B with MTBE	N		D	
LH30202	OU10-MW-21S-GW-LH30202-REG	08 OCT 2004	09:02	40 ML VOA Vial	3 HCl<ph 2	VOC by EPA 8260B with MTBE	N		D	
LH30205	OU4-MW-02A-GW-LH30205-REG	08 OCT 2004	09:07	40 ML VOA Vial	3 HCl<ph 2	VOC by EPA 8260B with MTBE	N		D	
LH30206	OU4-MW-02B-GW-LH30206-FD	08 OCT 2004	09:58	40 ML VOA Vial	3 HCl<ph 2	VOC by EPA 8260B with MTBE	N		D	
LH30207	OU4-MW-02B-GW-LH30207-REG	08 OCT 2004	09:58	40 ML VOA Vial	3 HCl<ph 2	VOC by EPA 8260B with MTBE	N		D	
LH30211	OU4-MW-12B-GW-LH30211-REG	08 OCT 2004	11:00	40 ML VOA Vial	3 HCl<ph 2	VOC by EPA 8260B with MTBE	N		D	
LH30212	FIELDQC-WA-LH30212-TB	08 OCT 2004	07:50	40 ML VOA Vial	2 HCl<ph 2	VOC by EPA 8260B with MTBE	N			

Rec'd by Anne Sanders 10/9/04 955 AM

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: LH041012

Page 1 of 2

Project Number: 829564

Samples Shipment Date: 13 OCT 2004

Bill To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212

Project Name: WPAFB

Lab Destination: Severn Trent Lab

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212

Turnaround Time: *normal*

Project Contact: Denise Pohl

Carrier/Waybill No.: Relinquished to STL/ Cincinnati

## Special Instructions:

### Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

### Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation) *Marie Chiller*

Date: *10/13/04*  
Time:

1. Received By (Signature/Affiliation) *Greg Plamondon*

Date: *10/13/04*  
Time: *10:30*

2. Relinquished By (Signature/Affiliation) *Greg Plamondon*

Date: *10/13/04*  
Time: *12:30*

2. Received By (Signature/Affiliation) *Greg Plamondon*

Date: *10/14/04*  
Time: *8:30*

3. Relinquished By (Signature/Affiliation)

Date:  
Time:

3. Received By (Signature/Affiliation)

Date:  
Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File	Clid	QC Lvl	Condition Receipt
LH30151	D5-DM-1231-GW-LH30151-REG	12 OCT 2004	15:58	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30157	B59-MW02-GW-LH30157-REG	12 OCT 2004	11:10	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30158	B59-MW03-GW-LH30158-REG	12 OCT 2004	09:28	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30162	B79C/D-MW02-GW-LH30162-REG	12 OCT 2004	10:12	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30173	CW03-77-GW-LH30173-REG	12 OCT 2004	10:07	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30174	CW04-060-GW-LH30174-REG	12 OCT 2004	13:37	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30177	CW05-085-GW-LH30177-REG	12 OCT 2004	11:22	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30193	NEA-MW27-31-GW-LH30193-REG	12 OCT 2004	14:45	40 ML VOA Vial	3	HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: LH041012

Page 2 of 2

*[Signature]*  
10/14/04 8:30

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	File	CID	QC Lvl	Condition Receipt
LH30199	OU10-MW-110-GW-LH30199-REG	12 OCT 2004	16:04	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30200	OU10-MW-115-GW-LH30200-REG	12 OCT 2004	15:12	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30208	OU4-MW-03B-GW-LH30208-REG	12 OCT 2004	13:31	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30213	FIELDQC-WA-LH30213-TB	12 OCT 2004	07:40	40 ML VOA Vial	2 HCl<pH 2	VOC by EPA 8260B with MTBE	N			



# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: LH041014

Page 1 of 2

Project Number: 829564

Samples Shipment Date: 15 OCT 2004

Bill To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212

Project Name: WPAFB

Lab Destination: Severn Trent Lab

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon  
5050 Section Ave  
Norwood OH 45212

Turnaround Time: *normal*

Project Contact: Denise Pohl

Carrier/Waybill No.: Relinquished to STL/ Cincinnati

## Special Instructions:

### Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

### Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By  
(Signature/Affiliation) *[Signature]*

Date: 10/15/04  
Time: 12:00

1. Received By  
(Signature/Affiliation) *[Signature]*

Date: 10/15/04  
Time: 1300

2. Relinquished By  
(Signature/Affiliation) *[Signature]*

Date: 10/15/04  
Time: 1300

2. Received By  
(Signature/Affiliation) *[Signature]*

Date: 10/16/04  
Time: 09:56

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File	CID	QC Lvl	Condition On Receipt
LH30175	CW05-055-GW-LH30175-FD	14 OCT 2004	15:55	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30176	CW05-055-GW-LH30176-REG	14 OCT 2004	15:55	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30179	CW10-055-GW-LH30179-REG	14 OCT 2004	14:55	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30179MS	CW10-055-GW-LH30179MS-MS	14 OCT 2004	14:55	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30179MSD	CW10-055-GW-LH30179MSD-MSD	14 OCT 2004	14:55	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30184	HD-11-GW-LH30184-REG	14 OCT 2004	09:22	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30185	HD-12M-GW-LH30185-REG	14 OCT 2004	10:22	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30186	HD-12S-GW-LH30186-REG	14 OCT 2004	10:39	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	

STL North Canton

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: LH041014

Page 2 of 2

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	File	CID	QC Lvl	Condition On Receipt
LH30187	HD-13D-GW-LH30187-REG	14 OCT 2004	11:32	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30188	HD-13S-GW-LH30188-AB	14 OCT 2004	12:23	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30189	HD-13S-GW-LH30189-REG	14 OCT 2004	12:23	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30190	MW131M-GW-LH30190-REG	14 OCT 2004	11:00	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30191	MW131S-GW-LH30191-REG	14 OCT 2004	12:08	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30192	MW132S-GW-LH30192-REG	14 OCT 2004	09:30	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30196	OU10-MW-03S-GW-LH30196-REG	14 OCT 2004	10:26	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30197	OU10-MW-06D-GW-LH30197-REG	14 OCT 2004	11:50	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30198	OU10-MW-06S-GW-LH30198-REG	14 OCT 2004	12:44	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30203	OU10-MW-25S-GW-LH30203-FD	14 OCT 2004	09:28	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30204	OU10-MW-25S-GW-LH30204-REG	14 OCT 2004	09:28	40 ML VOA Vial	3 HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30214	FIELDQC-WA-LH30214-TB	14 OCT 2004	07:40	40 ML VOA Vial	2 HCl<pH 2	VOC by EPA 8260B with MTBE	N			

*Ann Maddux 10/16/04 09:56am*

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: LH041015

Page 1 of 1

Project Number: 829564

Samples Shipment Date: 15 OCT 2004

Bill To: Greg Plamondon

Project Name: WPAFB

Lab Destination: Severn Trent Lab

5050 Section Ave

Norwood

OH 45212

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon

5050 Section Ave

Norwood

OH 45212

Turnaround Time: *normal*

Project Contact: Denise Pohl

Carrier/Waybill No.: Relinquished to STL/ Cincinnati

## Special Instructions:

### Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

### Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By  
(Signature/Affiliation) *Marie Chiller*

Date: 10/15/04  
Time: 12:00

1. Received By  
(Signature/Affiliation) *Anna Greene*

Date: 10/15/04  
Time: 1300

2. Relinquished By  
(Signature/Affiliation) *Anna Greene*

Date: 10/15/04  
Time: 1300

2. Received By  
(Signature/Affiliation) *Anna Maddux*

Date: 10/16/04  
Time: 09:56

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	FII	CID	QC Lvl	Condition On Receipt
LH30156	B59-MW01-GW-LH30156-REG	15 OCT 2004	10:47	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30159	B59-MW04-GW-LH30159-FD	15 OCT 2004	11:21	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30160	B59-MW04-GW-LH30160-REG	15 OCT 2004	11:21	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30215	FIELDQC-WA-LH30215-TB	15 OCT 2004	07:50	40 ML VOA Vial	2	HCl<pH.2	VOC by EPA 8260B with MTBE	N			

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: LH041019\_21

Page 1 of 2

*John McFadden*  
10/22/04 9:25

Project Number: 829564

Samples Shipment Date: 21 OCT 2004

Bill To: Greg Plamondon

Project Name: WPAFB

Lab Destination: Severn Trent Lab

5050 Section Ave

Norwood

OH 45212

Sample Coordinator: Marie Chiller

Lab Contact: Denise Pohl

Report To: Greg Plamondon

5050 Section Ave

Norwood

OH 45212

Turnaround Time: *normal*

Project Contact: Denise Pohl

Carrier/Waybill No.: Relinquished to STL/ Cinci

## Special Instructions:

### Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

### Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By  
(Signature/Affiliation)

*Marie Chiller*

Date: 10/21/04  
Time: 1400

1. Received By  
(Signature/Affiliation)

*John McFadden*

Date: 10/21/04  
Time: 1400

2. Relinquished By  
(Signature/Affiliation)

*John McFadden*

Date: 10/21/04  
Time: 1500

2. Received By  
(Signature/Affiliation)

*John McFadden*

Date: 10/22/04  
Time: 9:25

3. Relinquished By  
(Signature/Affiliation)

Date:  
Time:

3. Received By  
(Signature/Affiliation)

Date:  
Time:

## Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File	CID	QC Lvl	Condition On Receipt
LH30150	05-DM-123D-GW-LH30150-REG	21 OCT 2004	11:35	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30152	05-DM-123S-GW-LH30152-FD	21 OCT 2004	10:40	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30153	05-DM-123S-GW-LH30153-REG	21 OCT 2004	10:40	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30155	23-578-M-GW-LH30155-REG	19 OCT 2004	09:18	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30168	BSS-P-1-GW-LH30168-REG	19 OCT 2004	14:40	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30169	BSS-P-2-GW-LH30169-REG	19 OCT 2004	13:52	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30170	BSS-P-3-GW-LH30170-REG	19 OCT 2004	13:51	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30171	BSS-P-4-GW-LH30171-REG	19 OCT 2004	14:37	40 ML VOA Vial	3	HCl<pH 2	VOC by EPA 8260B with MTBE	N		D	

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: LH041019\_21

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*John M. Felt*  
10/22/04 9:25

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	File	CID	QC Lvl	Condition On Receipt
LH30172	CHP4-MW01-GW-LH30172-REG	19 OCT 2004	10:12	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30172MS	CHP4-MW01-GW-LH30172MS-MS	19 OCT 2004	10:12	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30172MSD	CHP4-MW01-GW-LH30172MSD-MSD	19 OCT 2004	10:12	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30178	CW07-055-GW-LH30178-REG	21 OCT 2004	11:38	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30180	FTA2-MW02C-GW-LH30180-REG	21 OCT 2004	10:48	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30181	GR-330-GW-LH30181-REG	19 OCT 2004	11:20	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30182	GR-333-GW-LH30182-REG	20 OCT 2004	15:27	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30183	GR-334-GW-LH30183-REG	20 OCT 2004	14:40	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30201	OU10-MW-19D-GW-LH30201-REG	20 OCT 2004	16:20	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30209	OU4-MW-03C-GW-LH30209-REG	19 OCT 2004	11:19	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30210	OU4-MW-04B-GW-LH30210-REG	19 OCT 2004	10:18	40 ML VOA Vial	3 HCl-pH 2	VOC by EPA 8260B with MTBE	N		D	
LH30216	FIELDQC-WA-LH30216-TB	19 OCT 2004	07:40	40 ML VOA Vial	2 HCl-pH 2	VOC by EPA 8260B with MTBE	N			
LH30217	FIELDQC-WA-LH30217-TB	21 OCT 2004	07:40	40 ML VOA Vial	2 HCl-pH 2	VOC by EPA 8260B with MTBE	N			

## **Appendix C**

### **OU1 Analytical Data and Chain of Custody Records**

**C1 OU1 Groundwater Analytical Data (Detects Only) – July  
and October**

**C2 OU1 Chain of Custody Records – July and October**

**C3 City of Fairborn Quarterly Effluent Monitoring Transmittal  
Letters**

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms*  
for the Chain of Custody Records and Transmittal Letters**

**C1**

**OU1 Groundwater Analytical Data (Detects Only): July and October**

Table C1  
WPAFB OU1 Groundwater Analytical Data (Detects Only) - July and October 2004  
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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_01	KH30135	20-Oct-04	01-004-M	REG	Iron	50000	ug/L	1	100	METALS	E200.7	4J22187
OU_01	KH30135	20-Oct-04	01-004-M	REG	Magnesium	52100	ug/L	1	5000	METALS	E200.7	4J22187
OU_01	KH30135	20-Oct-04	01-004-M	REG	Manganese	800	ug/L	1	15	METALS	E200.7	4J22187
OU_01	KH30135	20-Oct-04	01-004-M	REG	Sodium	18700	ug/L	1	5000	METALS	E200.7	4J22187
OU_01	KH30135	20-Oct-04	01-004-M	REG	Artenic	100	ug/L	1	10	METALS	E200.7	4J22187
OU_01	KH30135	20-Oct-04	01-004-M	REG	Barium	730	ug/L	1	200	METALS	E200.7	4J22187
OU_01	KH30135	20-Oct-04	01-004-M	REG	Calcium	114000	ug/L	1	5000	METALS	E200.7	4J22187
OU_01	KH30135	20-Oct-04	01-004-M	REG	Acetone	2.5 J	ug/L	1	10	VOLATILES	SW62608	4J22187
OU_01	KH30135	20-Oct-04	01-004-M	REG	1,2,3,7,8-HXCD	0.00000381 Q J	ug/L	1	0.00000081	DIOXINS	SW6290	4J22183
OU_01	KH30135	20-Oct-04	01-004-M	REG	OCDD	0.0000038 B J	ug/L	1	0.000001	DIOXINS	SW6290	4J22183
OU_01	KH30135	20-Oct-04	01-004-M	REG	Total HXCD	0.0000016 Q J	ug/L	1	0.00000084	DIOXINS	SW6290	4J22183
OU_01	KH30135	20-Oct-04	01-004-M	REG	Total HPCDF	0.0000013 B J	ug/L	1	0.00000082	DIOXINS	SW6290	4J22183
OU_01	KH30135	20-Oct-04	01-004-M	REG	OCDF	0.0000025 Q B J	ug/L	1	0.00000089	DIOXINS	SW6290	4J22183
OU_01	KH30135	20-Oct-04	01-004-M	REG	Total HXCD	0.0000026 B J Q	ug/L	1	0.0000006	DIOXINS	SW6290	4J22183
OU_01	KH30135	20-Oct-04	01-004-M	REG	2,3,4,6,7,8-HXCD	0.0000011 J	ug/L	1	0.00000059	DIOXINS	SW6290	4J22183
OU_01	KH30135	20-Oct-04	01-004-M	REG	1,2,3,4,6,7,8-HPCDF	0.0000013 B J	ug/L	1	0.00000077	DIOXINS	SW6290	4J22183
OU_01	KH30135	20-Oct-04	01-004-M	REG	1,2,3,4,7,8-HXCD	0.00000072 B J	ug/L	1	0.00000067	DIOXINS	SW6290	4J22183
OU_01	KH30135	20-Oct-04	01-004-M	REG	1,2,3,7,8-HXCD	0.00000083 Q J	ug/L	1	0.00000075	DIOXINS	SW6290	4J22183
OU_01	KH30136	13-Oct-04	01-DNA-102D-M	REG	Magnesium	17900	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30136	13-Oct-04	01-DNA-102D-M	REG	Potassium	9000	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30136	13-Oct-04	01-DNA-102D-M	REG	Sodium	28800	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30136	13-Oct-04	01-DNA-102D-M	REG	Barium	360	ug/L	1	200	METALS	E200.7	AAJ150115
OU_01	KH30136	13-Oct-04	01-DNA-102D-M	REG	Calcium	61900	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30136	13-Oct-04	01-DNA-102D-M	REG	Total Cyanide	48	ug/L	1	10	GENERAL CHEM	E335.2	AAJ150115
OU_01	KH30136	13-Oct-04	01-DNA-102D-M	REG	Acetone	1.7 J B	ug/L	1	10	VOLATILES	SW62608	AAJ150115
OU_01	KH30136	13-Oct-04	01-DNA-102D-M	REG	but(2-Ethylthiophthalate	1.5 J B	ug/L	1	10	SEMIVOLATILES	SW6270C	AAJ150115
OU_01	KH30136	13-Oct-04	01-DNA-102D-M	REG	Total PECDF	0.00000044 Q J	ug/L	1	0.00000068	DIOXINS	SW6290	4J13124
OU_01	KH30136	13-Oct-04	01-DNA-102D-M	REG	OCDD	0.00000048 B J	ug/L	1	0.00000064	DIOXINS	SW6290	4J13124
OU_01	KH30136	13-Oct-04	01-DNA-102D-M	REG	Total TCDD	0.00000097 Q J	ug/L	1	0.0000012	DIOXINS	SW6290	4J13124
OU_01	KH30136	13-Oct-04	01-DNA-102D-M	REG	Total HPCDF	0.00000087 Q B J	ug/L	1	0.00000082	DIOXINS	SW6290	4J13124
OU_01	KH30136	13-Oct-04	01-DNA-102D-M	REG	1,2,3,4,7,8-HXCD	0.00000087 Q B J	ug/L	1	0.00000057	DIOXINS	SW6290	4J13124
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	Iron	3200	ug/L	1	100	METALS	E200.7	AAJ070195
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	Magnesium	58900	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	Manganese	45	ug/L	1	15	METALS	E200.7	AAJ070195
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	Sodium	11400	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	Artenic	18	ug/L	1	10	METALS	E200.7	AAJ070195
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	Calcium	115000	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	Ammonia (as N)	400	ug/L	1	200	GENERAL CHEM	E350.3	AAJ070195
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	Acetone	1 J	ug/L	1	10	VOLATILES	SW62608	AAJ070195
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	1,2,3,7,8-HXCD	0.0000048 B J	ug/L	1	0.0000014	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	Total PECDF	0.000004 Q B J	ug/L	1	0.0000014	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	OCDD	0.0000014 B J	ug/L	1	0.0000016	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	Total HXCD	0.0000012 B J Q	ug/L	1	0.0000015	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	1,2,3,4,6,7,8-HPCDF	0.0000038 Q B J	ug/L	1	0.0000016	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	Total HPCDF	0.000003 Q B J	ug/L	1	0.0000017	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	OCDF	0.000003 Q B J	ug/L	1	0.0000017	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	1,2,3,7,8-HXCD	0.000003 Q B J	ug/L	1	0.0000017	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	1,2,3,7,8-HPCDF	0.0000042 Q B J	ug/L	1	0.0000017	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	Total HXCD	0.0000014 Q B J	ug/L	1	0.0000012	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	2,3,4,7,8-PECDF	0.0000022 Q B J	ug/L	1	0.0000011	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	1,2,3,7,8-PECDF	0.0000018 Q B J	ug/L	1	0.0000016	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	1,2,3,6,7,8-HXCD	0.0000021 Q B J	ug/L	1	0.0000011	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	1,2,3,6,7,8-HXCD	0.0000023 Q B J	ug/L	1	0.0000016	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	1,2,3,4,6,7,8-HXCD	0.0000029 B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	1,2,3,4,6,7,8-HPCDF	0.0000044 B J	ug/L	1	0.0000014	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	1,2,3,4,7,8-HXCD	0.0000028 Q B J	ug/L	1	0.0000011	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DNA-81D-M	REG	1,2,3,7,8-HXCD	0.0000042 B J	ug/L	1	0.0000014	DIOXINS	SW6290	4J06324



Table C1  
WPAFB OU1 Groundwater Analytical Data (Detects Only) - July and October 2004  
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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	Potassium	8800	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	Sodium	17400	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	Calcium	1000	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	Ammonia (as N)	592000	ug/L	1	200	GENERAL CHEM	E300.3	AAJ070195
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	Toluene	0.19 J	ug/L	1	1	VOLATILES	SW62608	AAJ070195
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	Acetone	11	ug/L	1	10	VOLATILES	SW62608	AAJ070195
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	2-Butanone	1.4 J	ug/L	1	10	VOLATILES	SW62608	AAJ070195
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	4-Methylphenol	1 J	ug/L	1	10	SEMI-VOLATILES	SW6270C	AAJ070195
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	Phenol	1.1 J	ug/L	1	10	SEMI-VOLATILES	SW6270C	AAJ070195
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	bat(2-Ethylhexylphthalate	0.55 J	ug/L	1	10	SEMI-VOLATILES	SW6270C	AAJ070195
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	1,2,3,7,8,9-HXCD	0.000017 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	OCDD	0.000004 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	Total HXCD	0.000046 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	Total HPCDD	0.000033 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	OCDF	0.000033 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	1,2,3,4,7,8-HXCD	0.000003 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	1,2,3,4,7,8,9-HPCDF	0.0000013 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	Total HXCD	0.000024 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	1,2,3,6,7,8-HXCD	0.000028 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	1,2,3,6,7,8-HXCD	0.000016 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	1,2,3,4,6,7,8-HPCDF	0.0000015 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	1,2,3,4,6,7,8-HXCD	0.0000015 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30138	5-Oct-04	02-DMA-81S-M	REG	1,2,3,4,7,8-HXCD	0.0000012 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	Iron	190	ug/L	1	100	METALS	E200.7	AAJ070195
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	Magnesium	37700	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	Manganese	480	ug/L	1	15	METALS	E200.7	AAJ070195
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	Sodium	8200	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	Barium	420	ug/L	1	200	METALS	E200.7	AAJ070195
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	Calcium	84900	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	Ammonia (as N)	400	ug/L	1	200	GENERAL CHEM	E300.3	AAJ070195
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	OCDD	0.000012 B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	1,2,3,4,6,7,8-HPCDD	0.000034 B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	Total HPCDD	0.000012 B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	OCDF	0.000033 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	Total HPCDD	0.000048 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	OCDF	0.000033 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	1,2,3,7,8-PECDD	0.000012 B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	1,2,3,4,7,8,9-HPCDF	0.000002 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	Total HXCD	0.000061 B J Q	ug/L	1	0.00000068	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	1,2,3,6,7,8-HXCD	0.000008 Q B J	ug/L	1	0.00000081	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	2,3,4,6,7,8-HXCD	0.000012 Q B J	ug/L	1	0.00000084	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	1,2,3,4,6,7,8-HPCDF	0.000027 Q B J	ug/L	1	0.00000093	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	1,2,3,4,7,8-HXCD	0.000014 B J	ug/L	1	0.0000006	DIOXINS	SW6290	4J06324
OU_01	KH30140	5-Oct-04	02-DMA-82-M	REG	1,2,3,7,8-HXCD	0.000025 Q B J	ug/L	1	0.00000097	DIOXINS	SW6290	4J06324
OU_01	KH30141	20-Oct-04	02-DMA-83D-M	REG	Magnesium	38000	ug/L	1	5000	METALS	E200.7	4J22187
OU_01	KH30141	20-Oct-04	02-DMA-83D-M	REG	Sodium	330	ug/L	1	15	METALS	E200.7	4J22187
OU_01	KH30141	20-Oct-04	02-DMA-83D-M	REG	Calcium	11500	ug/L	1	5000	METALS	E200.7	4J22187
OU_01	KH30141	20-Oct-04	02-DMA-83D-M	REG	Total HPCDD	0.0000033 Q J	ug/L	1	0.00000062	DIOXINS	SW6290	4J22183
OU_01	KH30141	20-Oct-04	02-DMA-83D-M	REG	OCDD	0.0000032 Q B J	ug/L	1	0.00000077	DIOXINS	SW6290	4J22183
OU_01	KH30141	20-Oct-04	02-DMA-83D-M	REG	Total HXCD	0.0000047 Q J	ug/L	1	0.00000069	DIOXINS	SW6290	4J22183
OU_01	KH30141	20-Oct-04	02-DMA-83D-M	REG	OCDF	0.000022 Q B J	ug/L	1	0.00000085	DIOXINS	SW6290	4J22183
OU_01	KH30141	20-Oct-04	02-DMA-83D-M	REG	Total HXCD	0.0000067 Q J	ug/L	1	0.00000047	DIOXINS	SW6290	4J22183
OU_01	KH30141	20-Oct-04	02-DMA-83D-M	REG	2,3,4,7,8-PECDF	0.0000053 Q J	ug/L	1	0.00000054	DIOXINS	SW6290	4J22183
OU_01	KH30141	20-Oct-04	02-DMA-83D-M	REG	2,3,4,7,8-HXCD	0.0000067 Q J	ug/L	1	0.00000054	DIOXINS	SW6290	4J22183

Table C1  
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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Magnesium	68300	ug/L	1	5000	METALS	E200.7	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Manganese	280	ug/L	1	15	METALS	E200.7	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Sodium	56400	ug/L	1	5000	METALS	E200.7	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Barium	270	ug/L	1	200	METALS	E200.7	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Calcium	123000	ug/L	1	5000	METALS	E200.7	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Ammonia (as N)	200	ug/L	1	200	GENERAL CHEM	E350.3	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Chlorobenzene	0.44 J.D	ug/L	1.87	1.7	VOLATILES	SW82608	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	1,2-Dichloroethene	0.71 J.D	ug/L	1.87	0.84	VOLATILES	SW82608	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Acetone	3.7 J.D	ug/L	1.87	1.7	VOLATILES	SW82608	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Benzene	0.82 J.D	ug/L	1.87	1.7	VOLATILES	SW82608	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	1,1,1-Trichloroethane	52 D	ug/L	1.87	1.7	VOLATILES	SW82608	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Vinyl chloride	0.87 J.D	ug/L	1.87	1.7	VOLATILES	SW82608	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	1,1-Dichloroethane	50 D	ug/L	1.87	1.7	VOLATILES	SW82608	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	1,1-Dichloroethene	2.4 D	ug/L	1.87	1.7	VOLATILES	SW82608	4J22187
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Total PCBDF	0.0000038 Q J	ug/L	1	0.00000044	DOXINS	SW8290	4J22183
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	OCDD	0.0000032 B J	ug/L	1	0.00000098	DOXINS	SW8290	4J22183
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Total HXGDD	0.0000008 Q J	ug/L	1	0.00000075	DOXINS	SW8290	4J22183
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	1,2,3,4,6,7,8-HPCDD	0.0000003 B J	ug/L	1	0.00000066	DOXINS	SW8290	4J22183
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Total HPCDD	0.0000003 B J	ug/L	1	0.00000066	DOXINS	SW8290	4J22183
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	Total HXGDF	0.0000003 B J	ug/L	1	0.00000046	DOXINS	SW8290	4J22183
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	2,3,4,7,8-PECDF	0.00000038 Q J	ug/L	1	0.00000041	DOXINS	SW8290	4J22183
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	2,3,4,6,7,8-HXGDF	0.0000004 J	ug/L	1	0.00000044	DOXINS	SW8290	4J22183
OU 01	KH30142	20-Oct-04	02-DNA-835-M	REG	1,2,3,4,7,8-HXGDF	0.00000038 Q B J	ug/L	1	0.00000043	DOXINS	SW8290	4J22183
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	Iron	22200	ug/L	1	100	METALS	E200.7	4J2200117
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	Magnesium	73100	ug/L	1	5000	METALS	E200.7	4J2200117
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	Manganese	100	ug/L	1	15	METALS	E200.7	4J2200117
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	Sodium	15600	ug/L	1	5000	METALS	E200.7	4J2200117
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	Arsenic	53	ug/L	1	10	METALS	E200.7	4J2200117
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	Barium	420	ug/L	1	200	METALS	E200.7	4J2200117
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	Calcium	143000	ug/L	1	5000	METALS	E200.7	4J2200117
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	Ammonia (as N)	700	ug/L	1	200	GENERAL CHEM	E350.3	4J2200117
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	Acetone	4.1 J	ug/L	1	10	VOLATILES	SW82608	4J2200117
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	Benzene	0.93 J	ug/L	1	1	VOLATILES	SW82608	4J2200117
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	OCDD	0.0000034 B J	ug/L	1	0.00000096	DOXINS	SW8290	4J13124
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	1,2,3,4,6,7,8-HPCDD	0.00000057 Q B J	ug/L	1	0.00000079	DOXINS	SW8290	4J13124
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	Total HPCDD	0.00000057 Q B J	ug/L	1	0.00000079	DOXINS	SW8290	4J13124
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	Total HXGDF	0.00000054 Q B J	ug/L	1	0.00000054	DOXINS	SW8290	4J13124
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	1,2,3,4,7,8-HXGDF	0.00000043 Q J	ug/L	1	0.00000048	DOXINS	SW8290	4J13124
OU 01	KH30143	18-Oct-04	02-DNA-84-M	FD	1,2,3,4,7,8-HXGDF	0.00000043 Q B J	ug/L	1	0.0000005	DOXINS	SW8290	4J13124
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	Iron	21500	ug/L	1	100	METALS	E200.7	4J2200117
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	Magnesium	71000	ug/L	1	5000	METALS	E200.7	4J2200117
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	Manganese	100	ug/L	1	15	METALS	E200.7	4J2200117
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	Sodium	14900	ug/L	1	5000	METALS	E200.7	4J2200117
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	Arsenic	52	ug/L	1	10	METALS	E200.7	4J2200117
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	Barium	410	ug/L	1	200	METALS	E200.7	4J2200117
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	Calcium	139000	ug/L	1	5000	METALS	E200.7	4J2200117
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	Ammonia (as N)	500	ug/L	1	200	GENERAL CHEM	E350.3	4J2200117
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	Acetone	2.8 J	ug/L	1	10	VOLATILES	SW82608	4J2200117
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	Benzene	0.84 J	ug/L	1	1	VOLATILES	SW82608	4J2200117
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	1,2-Ethylphenylphthalate	0.83 J	ug/L	1	10	SEMIVOLATILES	SW8270C	4J13124
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	OCDD	0.0000028 B J	ug/L	1	0.00000085	DOXINS	SW8290	4J13124
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	Total HPCDD	0.00000043 Q B J	ug/L	1	0.00000066	DOXINS	SW8290	4J13124
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	Total HXGDF	0.00000054 Q B J	ug/L	1	0.00000051	DOXINS	SW8290	4J13124
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	1,2,3,4,6,7,8-HPCDD	0.00000043 Q B J	ug/L	1	0.0000006	DOXINS	SW8290	4J13124
OU 01	KH30144	18-Oct-04	02-DNA-84-M	REG	1,2,3,4,7,8-HXGDF	0.00000054 Q B J	ug/L	1	0.00000048	DOXINS	SW8290	4J13124

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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	Iron	5800	ug/L	1	100	METALS	E200.7	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	Magnesium	39700	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	Manganese	90	ug/L	1	15	METALS	E200.7	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	Potassium	9300	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	Sodium	132000	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	Barium	980	ug/L	1	200	METALS	E200.7	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	Calcium	90800	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	Ammonia (as N)	1000	ug/L	1	200	GENERAL CHEM	E350.3	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	bis(2-Ethylhexyl)phthalate	0.8 J	ug/L	1	10	SEMIVOLATILES	SW8270C	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	OCDD	0.0000087 B J	ug/L	1	0.0000016	DIOXINS	SW8290	4J06324
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	Total HPCDF	0.0000033 B J Q	ug/L	1	0.0000014	DIOXINS	SW8290	4J06324
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	OCDF	0.0000045 Q B J	ug/L	1	0.0000017	DIOXINS	SW8290	4J06324
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	1,2,3,4,7,8,9-HPCDF	0.0000019 Q B J	ug/L	1	0.0000016	DIOXINS	SW8290	4J06324
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	Total HXCDF	0.0000017 B J Q	ug/L	1	0.0000001	DIOXINS	SW8290	4J06324
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	1,2,3,6,7,8-HXCDF	0.0000017 B J	ug/L	1	0.00000091	DIOXINS	SW8290	4J06324
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	2,3,4,6,7,8-HXCDF	0.0000008 Q B J	ug/L	1	0.00000088	DIOXINS	SW8290	4J06324
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	1,2,3,4,6,7,8-HXCDF	0.0000015 B J	ug/L	1	0.0000012	DIOXINS	SW8290	4J06324
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	1,2,3,4,7,8-HXCDF	0.0000011 B J	ug/L	1	0.0000008	DIOXINS	SW8290	4J06324
OU_01	KH30148	5-Oct-04	LF08-MW02A	REG	1,2,3,7,8-HXCDF	0.0000023 Q B J	ug/L	1	0.0000013	DIOXINS	SW8290	4J06324
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	Iron	4000	ug/L	1	100	METALS	E200.7	AAJ080149
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	Magnesium	51000	ug/L	1	5000	METALS	E200.7	AAJ080149
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	Manganese	41	ug/L	1	15	METALS	E200.7	AAJ080149
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	Sodium	23600	ug/L	1	5000	METALS	E200.7	AAJ080149
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	Arsenic	19	ug/L	1	200	METALS	E200.7	AAJ080149
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	Barium	900	ug/L	1	200	METALS	E200.7	AAJ080149
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	Calcium	114000	ug/L	1	5000	METALS	E200.7	AAJ080149
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	Ammonia (as N)	1000	ug/L	1	200	GENERAL CHEM	E350.3	AAJ080149
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	OCDD	0.0000015 B J	ug/L	1	0.0000012	DIOXINS	SW8290	4J06324
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	1,2,3,4,7,8-HPCDF	0.0000015 Q B J	ug/L	1	0.0000011	DIOXINS	SW8290	4J06324
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	Total HPCDF	0.0000012 Q B J	ug/L	1	0.0000011	DIOXINS	SW8290	4J06324
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	OCDF	0.0000002 Q B J	ug/L	1	0.0000001	DIOXINS	SW8290	4J06324
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	Total HXCDF	0.0000002 Q B J	ug/L	1	0.0000008	DIOXINS	SW8290	4J06324
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	1,2,3,6,7,8-HXCDF	0.0000002 Q B J	ug/L	1	0.00000075	DIOXINS	SW8290	4J06324
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	2,3,4,6,7,8-HXCDF	0.0000012 B J	ug/L	1	0.00000083	DIOXINS	SW8290	4J06324
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	1,2,3,4,7,8-HXCDF	0.000001 Q B J	ug/L	1	0.00000075	DIOXINS	SW8290	4J06324
OU_01	KH30147	6-Oct-04	LF08-MW02C	REG	1,2,3,7,8-HXCDF	0.0000008 Q B J	ug/L	1	0.00000068	DIOXINS	SW8290	4J06324
OU_01	KH30148	5-Oct-04	LF08-MW05B	FD	Iron	2200	ug/L	1	100	METALS	E200.7	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW05B	FD	Magnesium	55900	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW05B	FD	Manganese	66	ug/L	1	15	METALS	E200.7	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW05B	FD	Sodium	18700	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW05B	FD	Barium	390	ug/L	1	200	METALS	E200.7	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW05B	FD	Calcium	100000	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW05B	FD	Ammonia (as N)	300	ug/L	1	200	GENERAL CHEM	E350.3	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW05B	FD	Acetone	1.5 J	ug/L	1	10	VOLATILES	SW8260B	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW05B	FD	Benzene	0.35 J	ug/L	1	1	VOLATILES	SW8260B	AAJ070195
OU_01	KH30148	5-Oct-04	LF08-MW05B	FD	OCDD	0.00001 B J	ug/L	1	0.0000038	DIOXINS	SW8290	4J06324
OU_01	KH30148	5-Oct-04	LF08-MW05B	FD	OCDF	0.0000008 B J	ug/L	1	0.0000038	DIOXINS	SW8290	4J06324
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	Iron	2200	ug/L	1	100	METALS	E200.7	AAJ070195
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	Magnesium	56900	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	Manganese	66	ug/L	1	15	METALS	E200.7	AAJ070195
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	Sodium	18900	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	Barium	390	ug/L	1	200	METALS	E200.7	AAJ070195
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	Calcium	100000	ug/L	1	5000	METALS	E200.7	AAJ070195
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	Ammonia (as N)	300	ug/L	1	200	GENERAL CHEM	E350.3	AAJ070195
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	Benzene	0.34 J	ug/L	1	1	VOLATILES	SW8260B	AAJ070195
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	OCDD	0.0000063 B J	ug/L	1	0.0000011	DIOXINS	SW8290	4J06324
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	OCDF	0.0000029 Q B J	ug/L	1	0.0000001	DIOXINS	SW8290	4J06324
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	Total HPCDF	0.0000006 Q B J	ug/L	1	0.0000013	DIOXINS	SW8290	4J06324
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	OCDF	0.0000018 Q B J	ug/L	1	0.0000011	DIOXINS	SW8290	4J06324
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	1,2,3,4,7,8-HPCDF	0.0000015 Q B J	ug/L	1	0.00000083	DIOXINS	SW8290	4J06324
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	Total HXCDF	0.0000007 Q B J	ug/L	1	0.00000074	DIOXINS	SW8290	4J06324
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	1,2,3,6,7,8-HXCDF	0.0000011 Q B J	ug/L	1	0.00000091	DIOXINS	SW8290	4J06324
OU_01	KH30149	5-Oct-04	LF08-MW05B	REG	2,3,4,6,7,8-HXCDF	0.00000075 Q B J	ug/L	1	0.00000078	DIOXINS	SW8290	4J06324

**Table C1**  
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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	Iron	1700	ug/L	1	100	METALS	E200.7	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	Magnesium	40800	ug/L	1	5000	METALS	E200.7	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	Manganese	140	ug/L	1	15	METALS	E200.7	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	Sodium	11100	ug/L	1	5000	METALS	E200.7	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	Barium	25	ug/L	1	10	METALS	E200.7	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	Calcium	640	ug/L	1	200	METALS	E200.7	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	Ammonia (as N)	85900	ug/L	1	5000	METALS	E200.7	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	Acetone	900	ug/L	1	200	GENERAL CHEM	E200.7	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	Total PCDF	0.8 J	ug/L	1	10	VOLATILES	SW82608	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	OCDD	0.0000091 Q B J	ug/L	1	0.0000093	DIOXINS	SW82608	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	1,2,3,4,6,7,8-HPCDD	0.0000047 B J	ug/L	1	0.0000015	DIOXINS	SW82608	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	Total HPCDD	0.0000019 B J	ug/L	1	0.0000012	DIOXINS	SW82608	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	Total HPCDF	0.0000012 Q B J	ug/L	1	0.0000011	DIOXINS	SW82608	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	OCDF	0.0000042 B J	ug/L	1	0.0000012	DIOXINS	SW82608	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	Total HXCDF	0.0000021 B J Q	ug/L	1	0.00000085	DIOXINS	SW82608	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	2,3,4,7,8-HXCDF	0.0000091 Q B J	ug/L	1	0.00000085	DIOXINS	SW82608	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	2,3,4,6,7,8-HXCDF	0.0000091 B J	ug/L	1	0.00000081	DIOXINS	SW82608	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	1,2,3,4,6,7,8-HXCDF	0.0000012 Q B J	ug/L	1	0.000001	DIOXINS	SW82608	AAJ070186
OU_01	KH30150	5-Oct-04	LF08-MW08A	REG	1,2,3,7,8,9-HXCDF	0.0000012 Q B J	ug/L	1	0.0000012	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	Iron	510	ug/L	1	100	METALS	E200.7	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	Magnesium	41300	ug/L	1	5000	METALS	E200.7	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	Manganese	180	ug/L	1	15	METALS	E200.7	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	Sodium	11000	ug/L	1	5000	METALS	E200.7	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	Barium	660	ug/L	1	200	METALS	E200.7	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	Calcium	88100	ug/L	1	5000	METALS	E200.7	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	Ammonia (as N)	900	ug/L	1	200	GENERAL CHEM	E200.7	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	Acetone	0.92 J	ug/L	1	10	VOLATILES	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	Total PCDF	0.0000011 Q B J	ug/L	1	0.000001	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	OCDD	0.0000075 B J	ug/L	1	0.000002	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	1,2,3,4,6,7,8-HPCDD	0.0000018 Q B J	ug/L	1	0.0000016	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	Total HPCDD	0.0000018 Q B J	ug/L	1	0.0000016	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	Total HPCDF	0.0000044 B J Q	ug/L	1	0.0000014	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	OCDF	0.0000058 B J	ug/L	1	0.0000024	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	Total HXCDF	0.0000027 Q B J	ug/L	1	0.0000017	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	2,3,4,7,8-HXCDF	0.000004 Q B J	ug/L	1	0.0000011	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	Total TCDF	0.0000039 Q J	ug/L	1	0.0000028	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	2,3,4,7,8-PECDF	0.0000011 Q B J	ug/L	1	0.00000095	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	1,2,3,6,7,8-HXCDF	0.0000098 Q B J	ug/L	1	0.00000064	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	2,3,4,6,7,8-HXCDF	0.0000015 Q B J	ug/L	1	0.0000011	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	1,2,3,4,6,7,8-HXCDF	0.0000017 B J	ug/L	1	0.0000012	DIOXINS	SW82608	AAJ070186
OU_01	KH30151	5-Oct-04	LF08-MW08B	REG	1,2,3,4,7,8-HXCDF	0.0000015 Q B J	ug/L	1	0.0000009	DIOXINS	SW82608	AAJ070186
OU_01	KH30152	5-Oct-04	LF08-MW08C	REG	Aluminum	540	ug/L	1	200	METALS	E200.7	AAJ070186
OU_01	KH30152	5-Oct-04	LF08-MW08C	REG	Iron	690	ug/L	1	100	METALS	E200.7	AAJ070186
OU_01	KH30152	5-Oct-04	LF08-MW08C	REG	Magnesium	70000	ug/L	1	5000	METALS	E200.7	AAJ070186
OU_01	KH30152	5-Oct-04	LF08-MW08C	REG	Manganese	77	ug/L	1	15	METALS	E200.7	AAJ070186
OU_01	KH30152	5-Oct-04	LF08-MW08C	REG	Sodium	16400	ug/L	1	5000	METALS	E200.7	AAJ070186
OU_01	KH30152	5-Oct-04	LF08-MW08C	REG	Barium	250	ug/L	1	200	METALS	E200.7	AAJ070186
OU_01	KH30152	5-Oct-04	LF08-MW08C	REG	Calcium	118000	ug/L	1	5000	METALS	E200.7	AAJ070186
OU_01	KH30152	5-Oct-04	LF08-MW08C	REG	Ammonia (as N)	200	ug/L	1	200	GENERAL CHEM	E200.7	AAJ070186
OU_01	KH30152	5-Oct-04	LF08-MW08C	REG	OCDD	0.0000082 Q B J	ug/L	1	0.0000035	DIOXINS	SW82608	AAJ070186
OU_01	KH30152	5-Oct-04	LF08-MW08C	REG	Total HXCDF	0.0000015 Q B J	ug/L	1	0.0000014	DIOXINS	SW82608	AAJ070186
OU_01	KH30152	5-Oct-04	LF08-MW08C	REG	2,3,4,6,7,8-HXCDF	0.0000015 Q B J	ug/L	1	0.0000014	DIOXINS	SW82608	AAJ070186
OU_01	KH30153	18-Oct-04	LF08-MW09A	REG	Magnesium	34300	ug/L	1	5000	METALS	E200.7	AAJ200117
OU_01	KH30153	18-Oct-04	LF08-MW09A	REG	Potassium	23	ug/L	1	15	METALS	E200.7	AAJ200117
OU_01	KH30153	18-Oct-04	LF08-MW09A	REG	Sodium	6800	ug/L	1	5000	METALS	E200.7	AAJ200117
OU_01	KH30153	18-Oct-04	LF08-MW09A	REG	Barium	37100	ug/L	1	5000	METALS	E200.7	AAJ200117
OU_01	KH30153	18-Oct-04	LF08-MW09A	REG	Calcium	200	ug/L	1	200	METALS	E200.7	AAJ200117
OU_01	KH30153	18-Oct-04	LF08-MW09A	REG	Ammonia (as N)	78400	ug/L	1	5000	METALS	E200.7	AAJ200117
OU_01	KH30153	18-Oct-04	LF08-MW09A	REG	Ammonia (as N)	500	ug/L	1	200	GENERAL CHEM	E200.7	AAJ200117

Table C1  
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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_01	KH30153	18-Oct-04	LF08-MW09A	REG	Arsenic	2 J	ug/L	1	10	VOLATILES	SW8260B	AAJ200117
OU_01	KH30154	18-Oct-04	LF08-MW09B	REG	Magnesium	6000	ug/L	1	5000	METALS	E200.7	AAJ200117
OU_01	KH30154	18-Oct-04	LF08-MW09B	REG	Sodium	14700	ug/L	1	5000	METALS	E200.7	AAJ200117
OU_01	KH30154	18-Oct-04	LF08-MW09B	REG	Barium	240	ug/L	1	200	METALS	E200.7	AAJ200117
OU_01	KH30154	18-Oct-04	LF08-MW09B	REG	Calcium	167000	ug/L	1	5000	METALS	E200.7	AAJ200117
OU_01	KH30154	18-Oct-04	LF08-MW09B	REG	Arsenic	1 J	ug/L	1	10	VOLATILES	SW8260B	AAJ200117
OU_01	KH30154	18-Oct-04	LF08-MW09B	REG	OCDD	0.0000022 B J	ug/L	1	0.00000077	DIOXINS	SW8290	4J13124
OU_01	KH30154	18-Oct-04	LF08-MW09B	REG	OCDF	0.00000094 B J	ug/L	1	0.00000089	DIOXINS	SW8290	4J13124
OU_01	KH30154	18-Oct-04	LF08-MW09B	REG	Total TCDD	0.00000088 Q J	ug/L	1	0.0000011	DIOXINS	SW8290	4J13124
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Iron	1700	ug/L	1	100	METALS	E200.7	AAJ060336
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Magnesium	19600	ug/L	1	5000	METALS	E200.7	AAJ060336
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Manganese	34	ug/L	1	15	METALS	E200.7	AAJ060336
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Sodium	8000	ug/L	1	5000	METALS	E200.7	AAJ060336
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Zinc	150	ug/L	1	50	METALS	E200.7	AAJ060336
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Calcium	69500	ug/L	1	5000	METALS	E200.7	AAJ060336
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Ammonia (as N)	700	ug/L	1	200	GENERAL CHEM	E350.3	AAJ060336
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Arsenic	1.3 J	ug/L	1	10	VOLATILES	SW8260B	AAJ060336
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	1,2,3,7,8-HXDCD	0.0000031 B J	ug/L	1	0.00000085	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Total PECDF	0.0000028 Q J	ug/L	1	0.00000071	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	OCDD	0.000015 B J	ug/L	1	0.0000015	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Total HXDCD	0.0000063 B J	ug/L	1	0.00000098	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	1,2,3,4,6,7,8-HPCDD	0.0000038 B J	ug/L	1	0.0000009	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Total PECDD	0.0000023 Q J B	ug/L	1	0.00000084	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Total HPCDD	0.000007 B J	ug/L	1	0.0000009	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Total HPCDF	0.0000069 Q J	ug/L	1	0.00000085	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	OCDF	0.0000085 B J	ug/L	1	0.0000013	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	1,2,3,4,7,8-HXDCD	0.0000015 Q J	ug/L	1	0.00000097	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	1,2,3,7,8-HXDCD	0.0000011 B J	ug/L	1	0.00000084	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	1,2,3,4,7,8-HPCDF	0.0000032 Q J B	ug/L	1	0.0000011	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	Total HXDCDF	0.0000017 Q J B	ug/L	1	0.00000086	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	2,3,4,7,8-PECDF	0.0000012 Q J	ug/L	1	0.00000082	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	1,2,3,6,7,8-HXDCD	0.0000016 Q J	ug/L	1	0.00000081	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	1,2,3,6,7,8-HXDCD	0.0000017 Q J	ug/L	1	0.000001	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	2,3,4,6,7,8-HXDCD	0.000002 B J	ug/L	1	0.00000083	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	1,2,3,4,6,7,8-HPCDF	0.0000027 Q J B	ug/L	1	0.00000088	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	1,2,3,4,7,8-HXDCD	0.0000022 B J	ug/L	1	0.00000063	DIOXINS	SW8290	4J06324
OU_01	KH30155	4-Oct-04	LF08-MW101	REG	1,2,3,7,8-HXDCD	0.0000028 B J	ug/L	1	0.00000083	DIOXINS	SW8290	4J06324
OU_01	KH30156	6-Oct-04	LF08-MW102	REG	Iron	1000	ug/L	1	100	METALS	E200.7	AAJ060149
OU_01	KH30156	6-Oct-04	LF08-MW102	REG	Magnesium	26000	ug/L	1	5000	METALS	E200.7	AAJ060149
OU_01	KH30156	6-Oct-04	LF08-MW102	REG	Manganese	96	ug/L	1	15	METALS	E200.7	AAJ060149
OU_01	KH30156	6-Oct-04	LF08-MW102	REG	Calcium	94000	ug/L	1	5000	METALS	E200.7	AAJ060149
OU_01	KH30156	6-Oct-04	LF08-MW102	REG	Ammonia (as N)	400	ug/L	1	200	GENERAL CHEM	E350.3	AAJ060149
OU_01	KH30156	6-Oct-04	LF08-MW102	REG	OCDD	0.0000065 B J	ug/L	1	0.0000002	DIOXINS	SW8290	4J06324
OU_01	KH30156	6-Oct-04	LF08-MW102	REG	OCDF	0.0000005 Q J B	ug/L	1	0.00000024	DIOXINS	SW8290	4J06324
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	Iron	2200	ug/L	1	100	METALS	E200.7	AAJ060149
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	Magnesium	13900	ug/L	1	5000	METALS	E200.7	AAJ060149
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	Manganese	50	ug/L	1	15	METALS	E200.7	AAJ060149
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	Potassium	7000	ug/L	1	5000	METALS	E200.7	AAJ060149
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	Sodium	8600	ug/L	1	5000	METALS	E200.7	AAJ060149
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	Zinc	140	ug/L	1	50	METALS	E200.7	AAJ060149
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	Calcium	77700	ug/L	1	5000	METALS	E200.7	AAJ060149
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	Ammonia (as N)	700	ug/L	1	200	GENERAL CHEM	E350.3	AAJ060149
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	OCDD	0.0000068 B J	ug/L	1	0.0000012	DIOXINS	SW8290	4J06324
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	Total PECDD	0.0000007 B J	ug/L	1	0.00000088	DIOXINS	SW8290	4J06324
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	Total HPCDD	0.0000015 B Q J	ug/L	1	0.00000098	DIOXINS	SW8290	4J06324
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	1,2,3,7,8-PECCD	0.0000007 B J	ug/L	1	0.00000098	DIOXINS	SW8290	4J06324
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	Total HXCCD	0.00000091 Q B J	ug/L	1	0.00000074	DIOXINS	SW8290	4J06324
OU_01	KH30157	6-Oct-04	LF08-MW103	REG	2,3,4,6,7,8-HXCCD	0.00000091 Q B J	ug/L	1	0.00000071	DIOXINS	SW8290	4J06324

Table C1  
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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_01	KH30158	20-Oct-04	LF08-MW10A	REG	Iron	2200	ug/L	1	100	METALS	E200.7	4J22187
OU_01	KH30158	20-Oct-04	LF08-MW10A	REG	Magnesium	37200	ug/L	1	5000	METALS	E200.7	4J22187
OU_01	KH30158	20-Oct-04	LF08-MW10A	REG	Sodium	38800	ug/L	1	5000	METALS	E200.7	4J22187
OU_01	KH30158	20-Oct-04	LF08-MW10A	REG	Arsenic	36	ug/L	1	10	METALS	E200.7	4J22187
OU_01	KH30158	20-Oct-04	LF08-MW10A	REG	Barium	740	ug/L	1	200	METALS	E200.7	4J22187
OU_01	KH30158	20-Oct-04	LF08-MW10A	REG	Calcium	67100	ug/L	1	5000	METALS	E200.7	4J22187
OU_01	KH30158	20-Oct-04	LF08-MW10A	REG	Ammonia (as N)	2800	ug/L	1	200	GENERAL CHEM	E350.3	4J22187
OU_01	KH30158	20-Oct-04	LF08-MW10A	REG	Total PECD	0.0000043 Q J	ug/L	1	0.0000004	DIOXINS	SW8290	4J22183
OU_01	KH30158	20-Oct-04	LF08-MW10A	REG	OCDD	0.0000033 B J	ug/L	1	0.00000081	DIOXINS	SW8290	4J22183
OU_01	KH30158	20-Oct-04	LF08-MW10A	REG	Total HXCD	0.0000008 B J	ug/L	1	0.00000038	DIOXINS	SW8290	4J22183
OU_01	KH30158	20-Oct-04	LF08-MW10A	REG	2,3,4,7,8-PECDF	0.0000043 Q J	ug/L	1	0.00000038	DIOXINS	SW8290	4J22183
OU_01	KH30158	20-Oct-04	LF08-MW10A	REG	1,2,3,4,7,8-HXCD	0.0000008 B J	ug/L	1	0.00000035	DIOXINS	SW8290	4J22183
OU_01	KH30158	12-Oct-04	LF08-MW10B	REG	Iron	850	ug/L	1	100	METALS	E200.7	AAJ140122
OU_01	KH30158	12-Oct-04	LF08-MW10B	REG	Magnesium	57300	ug/L	1	5000	METALS	E200.7	AAJ140122
OU_01	KH30158	12-Oct-04	LF08-MW10B	REG	Manganese	280	ug/L	1	15	METALS	E200.7	AAJ140122
OU_01	KH30158	12-Oct-04	LF08-MW10B	REG	Sodium	93500	ug/L	1	5000	METALS	E200.7	AAJ140122
OU_01	KH30158	12-Oct-04	LF08-MW10B	REG	Calcium	125000	ug/L	1	5000	METALS	E200.7	AAJ140122
OU_01	KH30158	12-Oct-04	LF08-MW10B	REG	1,2-Dichloroethane	0.35 J	ug/L	1	1	VOLATILES	SW82608	AAJ140122
OU_01	KH30158	12-Oct-04	LF08-MW10B	REG	dis-1,2-Dichloroethane	1	ug/L	1	0.5	VOLATILES	SW82608	AAJ140122
OU_01	KH30158	12-Oct-04	LF08-MW10B	REG	Acetone	1.8 J B	ug/L	1	10	VOLATILES	SW82608	AAJ140122
OU_01	KH30158	12-Oct-04	LF08-MW10B	REG	Vinyl chloride	5.1	ug/L	1	1	VOLATILES	SW82608	AAJ140122
OU_01	KH30158	12-Oct-04	LF08-MW10B	REG	1,1-Dichloroethane	12	ug/L	1	1	VOLATILES	SW82608	AAJ140122
OU_01	KH30158	12-Oct-04	LF08-MW10B	REG	OCDD	0.0000026 Q B J	ug/L	1	0.00000087	DIOXINS	SW8290	4J13124
OU_01	KH30158	12-Oct-04	LF08-MW10B	REG	Total TCDF	0.0000015 Q J	ug/L	1	0.0000014	DIOXINS	SW8290	4J13124
OU_01	KH30180	20-Oct-04	LF08-MW10C	REG	Iron	550	ug/L	1	100	METALS	E200.7	4J22187
OU_01	KH30180	20-Oct-04	LF08-MW10C	REG	Magnesium	32800	ug/L	1	5000	METALS	E200.7	4J22187
OU_01	KH30180	20-Oct-04	LF08-MW10C	REG	Manganese	210	ug/L	1	15	METALS	E200.7	4J22187
OU_01	KH30180	20-Oct-04	LF08-MW10C	REG	Sodium	165000	ug/L	1	5000	METALS	E200.7	4J22187
OU_01	KH30180	20-Oct-04	LF08-MW10C	REG	Chromium	22	ug/L	1	10	METALS	E200.7	4J22187
OU_01	KH30180	20-Oct-04	LF08-MW10C	REG	Calcium	89000	ug/L	1	5000	METALS	E200.7	4J22187
OU_01	KH30180	20-Oct-04	LF08-MW10C	REG	dis-1,2-Dichloroethane	0.3 J	ug/L	1	0.5	VOLATILES	SW82608	4J22187
OU_01	KH30180	20-Oct-04	LF08-MW10C	REG	Acetone	0.97 J	ug/L	1	10	VOLATILES	SW82608	4J22187
OU_01	KH30180	20-Oct-04	LF08-MW10C	REG	Chloroform	0.48 J	ug/L	1	1	VOLATILES	SW82608	4J22187
OU_01	KH30180	20-Oct-04	LF08-MW10C	REG	1,1-Dichloroethane	2.3	ug/L	1	1	VOLATILES	SW82608	4J22187
OU_01	KH30181	13-Oct-04	LF08-MW11A	REG	Iron	460	ug/L	1	100	METALS	E200.7	AAJ150115
OU_01	KH30181	13-Oct-04	LF08-MW11A	REG	Magnesium	31100	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30181	13-Oct-04	LF08-MW11A	REG	Manganese	72	ug/L	1	15	METALS	E200.7	AAJ150115
OU_01	KH30181	13-Oct-04	LF08-MW11A	REG	Potassium	5400	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30181	13-Oct-04	LF08-MW11A	REG	Sodium	12200	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30181	13-Oct-04	LF08-MW11A	REG	Calcium	67100	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30181	13-Oct-04	LF08-MW11A	REG	Ammonia (as N)	800	ug/L	1	200	GENERAL CHEM	E350.3	AAJ150115
OU_01	KH30181	13-Oct-04	LF08-MW11A	REG	Acetone	2	ug/L	1	1	PESTICIDES/PCBS	SW8082	4J13128
OU_01	KH30181	13-Oct-04	LF08-MW11A	REG	Andor 1242	1 J B	ug/L	1	10	VOLATILES	SW82608	AAJ150115
OU_01	KH30181	13-Oct-04	LF08-MW11A	REG	Benzene	0.37 J	ug/L	1	1	VOLATILES	SW82608	AAJ150115
OU_01	KH30181	13-Oct-04	LF08-MW11A	REG	bi(2-Ethylhexyl)phthalate	0.81 J B	ug/L	1	10	SEMIVOLATILES	SW8270C	AAJ150115
OU_01	KH30181	13-Oct-04	LF08-MW11A	REG	OCDD	0.0000057 B J	ug/L	1	0.0000015	DIOXINS	SW8290	4J13124
OU_01	KH30181	13-Oct-04	LF08-MW11A	REG	Total PECD	0.0000085 Q J	ug/L	1	0.00000083	DIOXINS	SW8290	4J13124
OU_01	KH30182	13-Oct-04	LF08-MW11B	REG	Iron	5000	ug/L	1	100	METALS	E200.7	AAJ150115
OU_01	KH30182	13-Oct-04	LF08-MW11B	REG	Magnesium	50800	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30182	13-Oct-04	LF08-MW11B	REG	Manganese	65	ug/L	1	15	METALS	E200.7	AAJ150115
OU_01	KH30182	13-Oct-04	LF08-MW11B	REG	Sodium	115000	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30182	13-Oct-04	LF08-MW11B	REG	Barium	360	ug/L	1	200	METALS	E200.7	AAJ150115
OU_01	KH30182	13-Oct-04	LF08-MW11B	REG	Calcium	146000	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30182	13-Oct-04	LF08-MW11B	REG	Ammonia (as N)	300	ug/L	1	200	GENERAL CHEM	E350.3	AAJ150115
OU_01	KH30182	13-Oct-04	LF08-MW11B	REG	Acetone	0.77 J B	ug/L	1	10	VOLATILES	SW82608	AAJ150115
OU_01	KH30182	13-Oct-04	LF08-MW11B	REG	bi(2-Ethylhexyl)phthalate	1.1 J B	ug/L	1	10	SEMIVOLATILES	SW8270C	AAJ150115
OU_01	KH30182	13-Oct-04	LF08-MW11B	REG	OCDD	0.0000037 Q B J	ug/L	1	0.0000013	DIOXINS	SW8290	4J13124
OU_01	KH30182	13-Oct-04	LF08-MW11B	REG	Total TCDF	0.0000028 Q B J	ug/L	1	0.0000014	DIOXINS	SW8290	4J13124

Table C1  
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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_01	KH30163	13-Oct-04	LF08-MW11C	REG	Magnesium	47600	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30163	13-Oct-04	LF08-MW11C	REG	Manganese	80	ug/L	1	15	METALS	E200.7	AAJ150115
OU_01	KH30163	13-Oct-04	LF08-MW11C	REG	Sodium	65400	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30163	13-Oct-04	LF08-MW11C	REG	Calcium	130000	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30163	13-Oct-04	LF08-MW11C	REG	Acetone	1.1 J B	ug/L	1	10	VOLATILES	SW6260B	AAJ150115
OU_01	KH30163	13-Oct-04	LF08-MW11C	REG	bis(2-Ethylhexyl)phthalate	1.8 J B	ug/L	1	10	SEMIVOLATILES	SW6270C	AAJ150115
OU_01	KH30163	13-Oct-04	LF08-MW11C	REG	OCDD	0.0000037 B J	ug/L	1	0.00000098	DIOXINS	SW6290	AAJ13124
OU_01	KH30163	13-Oct-04	LF08-MW11C	REG	1,2,3,4,5,7,8-HPCDD	0.0000015 B J	ug/L	1	0.00000082	DIOXINS	SW6290	AAJ13124
OU_01	KH30163	13-Oct-04	LF08-MW11C	REG	Total HPCDD	0.0000028 J B	ug/L	1	0.00000082	DIOXINS	SW6290	AAJ13124
OU_01	KH30163	13-Oct-04	LF08-MW11C	REG	OCDF	0.0000012 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	AAJ13124
OU_01	KH30164	13-Oct-04	LF10-MW03A	REG	Aluminum	4700	ug/L	1	200	METALS	E200.7	AAJ150115
OU_01	KH30164	13-Oct-04	LF10-MW03A	REG	Iron	5700	ug/L	1	100	METALS	E200.7	AAJ150115
OU_01	KH30164	13-Oct-04	LF10-MW03A	REG	Magnesium	39600	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30164	13-Oct-04	LF10-MW03A	REG	Manganese	87	ug/L	1	15	METALS	E200.7	AAJ150115
OU_01	KH30164	13-Oct-04	LF10-MW03A	REG	Potassium	12100	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30164	13-Oct-04	LF10-MW03A	REG	Sodium	34000	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30164	13-Oct-04	LF10-MW03A	REG	Chromium	16	ug/L	1	10	METALS	E200.7	AAJ150115
OU_01	KH30164	13-Oct-04	LF10-MW03A	REG	Calcium	84800	ug/L	1	5000	METALS	E200.7	AAJ150115
OU_01	KH30164	13-Oct-04	LF10-MW03A	REG	Total Xylenes	0.49 J	ug/L	1	1	VOLATILES	SW6260B	AAJ150115
OU_01	KH30164	13-Oct-04	LF10-MW03A	REG	Acetone	1.4 J B	ug/L	1	10	VOLATILES	SW6260B	AAJ150115
OU_01	KH30164	13-Oct-04	LF10-MW03A	REG	Benzene	0.37 J	ug/L	1	1	VOLATILES	SW6260B	AAJ150115
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	Iron	230	ug/L	1	100	METALS	E200.7	AAJ060336
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	Magnesium	32200	ug/L	1	5000	METALS	E200.7	AAJ060336
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	Potassium	7700	ug/L	1	5000	METALS	E200.7	AAJ060336
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	Sodium	35200	ug/L	1	5000	METALS	E200.7	AAJ060336
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	Barium	580	ug/L	1	200	METALS	E200.7	AAJ060336
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	Calcium	75500	ug/L	1	5000	METALS	E200.7	AAJ060336
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	Ammonia (as N)	800	ug/L	1	200	GENERAL CHEM	E200.3	AAJ060336
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	Acetone	0.81 J	ug/L	1	10	VOLATILES	SW6260B	AAJ060336
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	1,2,3,7,8-HXPCDD	0.0000037 B J	ug/L	1	0.0000013	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	Total PCDD	0.0000033 Q B J	ug/L	1	0.00000091	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	OCDD	0.0000076 B J	ug/L	1	0.0000014	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	Total HXPCDD	0.0000091 B J Q	ug/L	1	0.0000013	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	1,2,3,4,5,7,8-HPCDD	0.0000035 B J	ug/L	1	0.00000096	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	Total PCDD	0.0000033 J B	ug/L	1	0.0000012	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	Total HPCDD	0.0000071 J B	ug/L	1	0.00000096	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	OCDF	0.0000055 B J	ug/L	1	0.0000011	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	1,2,3,4,7,8-HXPCDD	0.0000065 Q B J	ug/L	1	0.0000014	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	1,2,3,7,8-PECDD	0.0000031 Q B J	ug/L	1	0.0000013	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	1,2,3,7,8-PECDF	0.0000017 B J	ug/L	1	0.0000012	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	1,2,3,4,7,8-HPCDF	0.0000023 B J	ug/L	1	0.0000012	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	Total HXCDF	0.0000099 J Q B	ug/L	1	0.00000092	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	2,3,4,7,8-PECDF	0.0000013 Q B J	ug/L	1	0.00000083	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	1,2,3,7,8-PECDF	0.0000021 Q B J	ug/L	1	0.000001	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	1,2,3,6,7,8-HXPCDD	0.0000022 Q B J	ug/L	1	0.0000009	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	1,2,3,6,7,8-HXPCDF	0.0000022 Q B J	ug/L	1	0.0000009	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	2,3,4,6,7,8-HXPCDF	0.0000014 B J	ug/L	1	0.00000098	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	1,2,3,4,6,7,8-HPCDF	0.0000033 B J	ug/L	1	0.00000094	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	1,2,3,4,7,8-HXCDF	0.0000021 Q B J	ug/L	1	0.00000072	DIOXINS	SW6290	AAJ06324
OU_01	KH30165	4-Oct-04	LF10-MW05B	FD	1,2,3,7,8,9-HXCDF	0.0000024 Q B J	ug/L	1	0.0000012	DIOXINS	SW6290	AAJ06324

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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	Iron	210	ug/L	1	100	METALS	E200.7	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	Magnesium	31400	ug/L	1	5000	METALS	E200.7	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	Potassium	7700	ug/L	1	5000	METALS	E200.7	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	Sodium	34900	ug/L	1	5000	METALS	E200.7	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	Barium	550	ug/L	1	200	METALS	E200.7	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	Calcium	73800	ug/L	1	5000	METALS	E200.7	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	Ammonia (as N)	700	ug/L	1	200	GENERAL CHEM	E200.7	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	Acetone	0.42 J	ug/L	1	10	VOLATILES	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	bis(2-Ethylhexyl)phthalate	0.000024 B J	ug/L	1	0.0000097	SEMI-VOLATILES	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	Total PCDD	0.000024 Q J B	ug/L	1	0.0000085	DIOXINS	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	OCDD	0.0000099 B J	ug/L	1	0.0000021	DIOXINS	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	Total HXCDF	0.0000073 B J Q	ug/L	1	0.0000011	DIOXINS	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	1,2,3,4,6,7,8-HPCDD	0.0000023 Q B J	ug/L	1	0.0000011	DIOXINS	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	Total HPCDD	0.0000038 Q B J	ug/L	1	0.00000086	DIOXINS	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	Total HPCDF	0.0000043 B J Q	ug/L	1	0.0000024	DIOXINS	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	OCDF	0.0000027 B J	ug/L	1	0.00000099	DIOXINS	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	1,2,3,4,7,8-HXCD	0.0000028 Q B J	ug/L	1	0.0000011	DIOXINS	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	Total HXCD	0.0000016 B J	ug/L	1	0.00000089	DIOXINS	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	1,2,3,7,8-PECDF	0.0000014 Q B J	ug/L	1	0.0000011	DIOXINS	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	1,2,3,6,7,8-HXCD	0.0000023 Q B J	ug/L	1	0.0000011	DIOXINS	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	1,2,3,4,6,7,8-HPCDF	0.0000014 B J	ug/L	1	0.00000082	DIOXINS	SWB2608	AAJ060336
OU_01	KH30166	4-Oct-04	LF10-MW05B	REG	1,2,3,4,7,8-HXCD	0.0000016 B J	ug/L	1	0.00000072	DIOXINS	SWB2608	AAJ060336
OU_01	KH30167	6-Oct-04	LF10-MW05C	REG	Iron	1300	ug/L	1	100	METALS	E200.7	AAJ060149
OU_01	KH30167	6-Oct-04	LF10-MW05C	REG	Magnesium	59600	ug/L	1	5000	METALS	E200.7	AAJ060149
OU_01	KH30167	6-Oct-04	LF10-MW05C	REG	Manganese	390	ug/L	1	15	METALS	E200.7	AAJ060149
OU_01	KH30167	6-Oct-04	LF10-MW05C	REG	Sodium	16700	ug/L	1	5000	METALS	E200.7	AAJ060149
OU_01	KH30167	6-Oct-04	LF10-MW05C	REG	Calcium	182000	ug/L	1	5000	METALS	E200.7	AAJ060149
OU_01	KH30167	6-Oct-04	LF10-MW05C	REG	bis(2-Ethylhexyl)phthalate	3.3 J	ug/L	1	10	SEMI-VOLATILES	SWB2608	AAJ060149
OU_01	KH30167	6-Oct-04	LF10-MW05C	REG	Total PCDD	0.0000007 Q J	ug/L	1	0.0000011	DIOXINS	SWB2608	AAJ060149
OU_01	KH30167	6-Oct-04	LF10-MW05C	REG	OCDD	0.0000076 Q B J	ug/L	1	0.0000002	DIOXINS	SWB2608	AAJ060149
OU_01	KH30167	6-Oct-04	LF10-MW05C	REG	Total HPCDD	0.0000028 B J Q	ug/L	1	0.0000016	DIOXINS	SWB2608	AAJ060149
OU_01	KH30168	11-Oct-04	LF10-MW06A	REG	Magnesium	37800	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30168	11-Oct-04	LF10-MW06A	REG	Potassium	11400	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30168	11-Oct-04	LF10-MW06A	REG	Sodium	8400	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30168	11-Oct-04	LF10-MW06A	REG	Calcium	82900	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30168	11-Oct-04	LF10-MW06A	REG	Ammonia (as N)	700	ug/L	1	200	GENERAL CHEM	E200.7	AAJ130130
OU_01	KH30168	11-Oct-04	LF10-MW06A	REG	Acetone	0.81 J	ug/L	1	10	VOLATILES	SWB2608	AAJ130130
OU_01	KH30168	11-Oct-04	LF10-MW06A	REG	bis(2-Ethylhexyl)phthalate	1.5 J	ug/L	1	10	SEMI-VOLATILES	SWB2608	AAJ130130
OU_01	KH30168	11-Oct-04	LF10-MW06A	REG	Total PCDD	0.0000013 Q J	ug/L	1	0.0000028	DIOXINS	SWB2608	AAJ130130
OU_01	KH30168	11-Oct-04	LF10-MW06A	REG	Total Xylenes	0.98 J B	ug/L	1	1	VOLATILES	SWB2608	AAJ140122
OU_01	KH30168	11-Oct-04	LF10-MW06A	REG	Acetone	3.5 J B	ug/L	1	10	VOLATILES	SWB2608	AAJ140122
OU_01	KH30170	11-Oct-04	LF10-MW06B	REG	Iron	1500	ug/L	1	100	METALS	E200.7	AAJ130130
OU_01	KH30170	11-Oct-04	LF10-MW06B	REG	Magnesium	56100	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30170	11-Oct-04	LF10-MW06B	REG	Manganese	200	ug/L	1	15	METALS	E200.7	AAJ130130
OU_01	KH30170	11-Oct-04	LF10-MW06B	REG	Sodium	8000	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30170	11-Oct-04	LF10-MW06B	REG	Barium	18	ug/L	1	10	METALS	E200.7	AAJ130130
OU_01	KH30170	11-Oct-04	LF10-MW06B	REG	Calcium	101000	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30170	11-Oct-04	LF10-MW06B	REG	OCDD	0.000002 Q B J	ug/L	1	0.0000012	SEMI-VOLATILES	SWB2608	AAJ130130
OU_01	KH30171	11-Oct-04	LF10-MW07A	FD	Iron	4200	ug/L	1	100	METALS	E200.7	AAJ130130
OU_01	KH30171	11-Oct-04	LF10-MW07A	FD	Magnesium	57600	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30171	11-Oct-04	LF10-MW07A	FD	Manganese	73	ug/L	1	15	METALS	E200.7	AAJ130130
OU_01	KH30171	11-Oct-04	LF10-MW07A	FD	Sodium	16500	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30171	11-Oct-04	LF10-MW07A	FD	Barium	350	ug/L	1	200	METALS	E200.7	AAJ130130
OU_01	KH30171	11-Oct-04	LF10-MW07A	FD	Calcium	106000	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30171	11-Oct-04	LF10-MW07A	FD	Acetone	0.84 J	ug/L	1	10	VOLATILES	SWB2608	AAJ130130
OU_01	KH30171	11-Oct-04	LF10-MW07A	FD	bis(2-Ethylhexyl)phthalate	0.85 J	ug/L	1	10	SEMI-VOLATILES	SWB2608	AAJ130130
OU_01	KH30171	11-Oct-04	LF10-MW07A	FD	OCDD	0.0000013 Q B J	ug/L	1	0.00000075	DIOXINS	SWB2608	AAJ130130
OU_01	KH30171	11-Oct-04	LF10-MW07A	FD	OCDF	0.0000017 B J	ug/L	1	0.0000013	DIOXINS	SWB2608	AAJ130130
OU_01	KH30171	11-Oct-04	LF10-MW07A	FD	Total HXCD	0.00000038 Q J	ug/L	1	0.00000038	DIOXINS	SWB2608	AAJ130130
OU_01	KH30171	11-Oct-04	LF10-MW07A	FD	1,2,3,4,7,8-HXCD	0.00000038 Q J	ug/L	1	0.00000037	DIOXINS	SWB2608	AAJ130130



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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_01	KH30172	11-Oct-04	LF10-MW07A	REG	Iron	4100	ug/L	1	100	METALS	E200.7	AAJ30130
OU_01	KH30172	11-Oct-04	LF10-MW07A	REG	Magnesium	55700	ug/L	1	5000	METALS	E200.7	AAJ30130
OU_01	KH30172	11-Oct-04	LF10-MW07A	REG	Manganese	71	ug/L	1	15	METALS	E200.7	AAJ30130
OU_01	KH30172	11-Oct-04	LF10-MW07A	REG	Sodium	159000	ug/L	1	5000	METALS	E200.7	AAJ30130
OU_01	KH30172	11-Oct-04	LF10-MW07A	REG	Barium	340	ug/L	1	200	METALS	E200.7	AAJ30130
OU_01	KH30172	11-Oct-04	LF10-MW07A	REG	Calcium	103000	ug/L	1	5000	METALS	E200.7	AAJ30130
OU_01	KH30174	11-Oct-04	LF10-MW07C	REG	Magnesium	79100	ug/L	1	5000	METALS	E200.7	AAJ30130
OU_01	KH30174	11-Oct-04	LF10-MW07C	REG	Manganese	420	ug/L	1	15	METALS	E200.7	AAJ30130
OU_01	KH30174	11-Oct-04	LF10-MW07C	REG	Potassium	9700	ug/L	1	5000	METALS	E200.7	AAJ30130
OU_01	KH30174	11-Oct-04	LF10-MW07C	REG	Sodium	106000	ug/L	1	5000	METALS	E200.7	AAJ30130
OU_01	KH30174	11-Oct-04	LF10-MW07C	REG	Calcium	140000	ug/L	1	5000	METALS	E200.7	AAJ30130
OU_01	KH30174	11-Oct-04	LF10-MW07C	REG	Ammonia (as N)	1800	ug/L	1	200	GENERAL CHEM	E350.3	AAJ30130
OU_01	KH30174	11-Oct-04	LF10-MW07C	REG	Toluene	0.21 J	ug/L	1	1	VOLATILES	SWB2608	AAJ30130
OU_01	KH30174	11-Oct-04	LF10-MW07C	REG	Acetone	1 J	ug/L	1	10	VOLATILES	SWB2608	AAJ30130
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	Iron	8200	ug/L	1	100	METALS	E200.7	AAJ50115
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	Magnesium	59100	ug/L	1	5000	METALS	E200.7	AAJ50115
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	Manganese	150	ug/L	1	15	METALS	E200.7	AAJ50115
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	Sodium	54100	ug/L	1	5000	METALS	E200.7	AAJ50115
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	Calcium	224000	ug/L	1	5000	METALS	E200.7	AAJ50115
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	Total Cyanide	42	ug/L	1	10	GENERAL CHEM	E335.2	AAJ50115
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	Acetone	1 J B	ug/L	1	10	VOLATILES	SWB2608	AAJ50115
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	bis(2-Ethylhexyl)phthalate	1.2 J B	ug/L	1	10	SEMIVOLATILES	SWB270C	AAJ50115
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	OCDD	0.00004 B J	ug/L	1	0.00000081	DIOXINS	SWB290	4J13124
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	Total HPCDF	0.000002 Q B J	ug/L	1	0.00000087	DIOXINS	SWB290	4J13124
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	OCDF	0.0000014 Q B J	ug/L	1	0.00000057	DIOXINS	SWB290	4J13124
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	Total HXCDF	0.0000074 Q B J	ug/L	1	0.00000061	DIOXINS	SWB290	4J13124
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	1,2,3,6,7,8-HXCDF	0.0000074 Q B J	ug/L	1	0.00000061	DIOXINS	SWB290	4J13124
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	1,2,3,4,7,8-HXCDF	0.0000091 Q B J	ug/L	1	0.00000065	DIOXINS	SWB290	4J13124
OU_01	KH30175	13-Oct-04	LF10-MW08A-2	REG	1,2,3,4,7,8-HXCDF	0.0000098 Q B J	ug/L	1	0.00000061	DIOXINS	SWB290	4J13124
OU_01	KH30176	18-Oct-04	LF10-MW08B	REG	Aluminum	210	ug/L	1	200	METALS	E200.7	AAJ200117
OU_01	KH30176	18-Oct-04	LF10-MW08B	REG	Iron	1000	ug/L	1	100	METALS	E200.7	AAJ200117
OU_01	KH30176	18-Oct-04	LF10-MW08B	REG	Magnesium	74700	ug/L	1	5000	METALS	E200.7	AAJ200117
OU_01	KH30176	18-Oct-04	LF10-MW08B	REG	Manganese	420	ug/L	1	15	METALS	E200.7	AAJ200117
OU_01	KH30176	18-Oct-04	LF10-MW08B	REG	Sodium	335000	ug/L	1	5000	METALS	E200.7	AAJ200117
OU_01	KH30176	18-Oct-04	LF10-MW08B	REG	Barium	610	ug/L	1	200	METALS	E200.7	AAJ200117
OU_01	KH30176	18-Oct-04	LF10-MW08B	REG	Calcium	154000	ug/L	1	5000	METALS	E200.7	AAJ200117
OU_01	KH30176	18-Oct-04	LF10-MW08B	REG	Ammonia (as N)	500	ug/L	1	200	GENERAL CHEM	E350.3	AAJ200117
OU_01	KH30176	18-Oct-04	LF10-MW08B	REG	Acetone	2.7 J	ug/L	1	10	VOLATILES	SWB2608	AAJ200117
OU_01	KH30176	18-Oct-04	LF10-MW08B	REG	2-Butanone	0.44 J	ug/L	1	10	VOLATILES	SWB2608	AAJ200117
OU_01	KH30176	18-Oct-04	LF10-MW08B	REG	Total PCDF	0.0000057 Q J	ug/L	1	0.00000066	DIOXINS	SWB290	4J13124
OU_01	KH30176	18-Oct-04	LF10-MW08B	REG	OCDD	0.0000058 B J	ug/L	1	0.0000011	DIOXINS	SWB290	4J13124
OU_01	KH30177	11-Oct-04	LF10-MW09A	REG	Iron	1000	ug/L	1	100	METALS	E200.7	AAJ30130
OU_01	KH30177	11-Oct-04	LF10-MW09A	REG	Magnesium	38300	ug/L	1	5000	METALS	E200.7	AAJ30130
OU_01	KH30177	11-Oct-04	LF10-MW09A	REG	Manganese	77	ug/L	1	15	METALS	E200.7	AAJ30130
OU_01	KH30177	11-Oct-04	LF10-MW09A	REG	Sodium	7100	ug/L	1	5000	METALS	E200.7	AAJ30130
OU_01	KH30177	11-Oct-04	LF10-MW09A	REG	Barium	390	ug/L	1	200	METALS	E200.7	AAJ30130
OU_01	KH30177	11-Oct-04	LF10-MW09A	REG	Calcium	98100	ug/L	1	5000	METALS	E200.7	AAJ30130
OU_01	KH30177	11-Oct-04	LF10-MW09A	REG	bis(2-Ethylhexyl)phthalate	0.92 J	ug/L	1	10	SEMIVOLATILES	SWB270C	AAJ30130
OU_01	KH30177	11-Oct-04	LF10-MW09A	REG	OCDD	0.0000042 Q B J	ug/L	1	0.00000083	DIOXINS	SWB290	4J13124
OU_01	KH30177	11-Oct-04	LF10-MW09A	REG	OCDF	0.0000092 Q B J	ug/L	1	0.0000012	DIOXINS	SWB290	4J13124

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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Iron	9900	ug/L	1	100	METALS	E200.7	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Magnesium	78900	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Manganese	38	ug/L	1	15	METALS	E200.7	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Sodium	45300	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Asenic	16	ug/L	1	10	METALS	E200.7	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Barium	350	ug/L	1	200	METALS	E200.7	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Calcium	127000	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Ammonia (as N)	200	ug/L	1	200	GENERAL CHEM	E350.3	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	1,2-Dichloroethane	0.29 J	ug/L	1	1	VOLATILES	SW82608	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Acetone	1.8 J	ug/L	1	10	VOLATILES	SW82608	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Benzene	0.38 J	ug/L	1	1	VOLATILES	SW82608	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Chloroethane	0.48 J	ug/L	1	2	VOLATILES	SW82608	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Vinyl chloride	0.27 J	ug/L	1	1	VOLATILES	SW82608	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	1,1-Dichloroethane	0.55 J	ug/L	1	1	VOLATILES	SW82608	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	ba(2-Ethylhexylphthalate	1.8 J	ug/L	1	10	SEMIVOLATILES	SW8270C	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Total PCDF	0.0001 J.Q	ug/L	1	0.000031	DIOXINS	SW8290	4J13124
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	OCDD	0.00023 Q.B.J	ug/L	1	0.000045	DIOXINS	SW8290	4J13124
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	1,2,3,4,6,7,8-HPCDD	0.000036 Q.B.J	ug/L	1	0.000004	DIOXINS	SW8290	4J13124
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Total HPCDD	0.000036 Q.B.J	ug/L	1	0.000004	DIOXINS	SW8290	4J13124
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	OCDF	0.000015 B.J	ug/L	1	0.000031	DIOXINS	SW8290	4J13124
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Total TCDD	0.000012 Q	ug/L	1	0.000031	DIOXINS	SW8290	4J13124
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Total TCDF	0.000044 Q.J	ug/L	1	0.000036	DIOXINS	SW8290	4J13124
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	1,2,3,7,8-PECDF	0.000051 Q.J	ug/L	1	0.000004	DIOXINS	SW8290	4J13124
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Iron	3400	ug/L	1	100	METALS	E200.7	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Magnesium	72900	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Manganese	78	ug/L	1	15	METALS	E200.7	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Sodium	27000	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Calcium	124000	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Ammonia (as N)	400	ug/L	1	200	GENERAL CHEM	E350.3	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Acetone	1.2 J	ug/L	1	10	VOLATILES	SW82608	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Benzene	2.7 J	ug/L	1	1	VOLATILES	SW82608	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	1,1-Dichloroethane	0.47 J	ug/L	1	1	VOLATILES	SW82608	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	ba(2-Ethylhexylphthalate	1.8 J	ug/L	1	10	SEMIVOLATILES	SW8270C	AAJ130130
OU_01	KH30178	11-Oct-04	LF10-MW098	REG	Total HCXDD	0.000022 B.J	ug/L	1	0.0000063	DIOXINS	SW8290	4J13124
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Aluminum	340	ug/L	1	200	METALS	E200.7	AAJ090229
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Iron	10500	ug/L	1	100	METALS	E200.7	AAJ090229
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Magnesium	64800	ug/L	1	5000	METALS	E200.7	AAJ090229
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Manganese	79	ug/L	1	16	METALS	E200.7	AAJ090229
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Potassium	8600	ug/L	1	5000	METALS	E200.7	AAJ090229
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Sodium	55000	ug/L	1	5000	METALS	E200.7	AAJ090229
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Asenic	43	ug/L	1	10	METALS	E200.7	AAJ090229
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Barium	640	ug/L	1	200	METALS	E200.7	AAJ090229
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Calcium	132000	ug/L	1	5000	METALS	E200.7	AAJ090229
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Ammonia (as N)	2600	ug/L	1	200	GENERAL CHEM	E350.3	AAJ090229
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Chlorobenzene	1.1	ug/L	1	1	VOLATILES	SW82608	AAJ090229
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Benzene	0.58 J	ug/L	1	0.000013	DIOXINS	SW8290	4J09228
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Total PCDF	0.000013 Q.B.J	ug/L	1	0.000022	DIOXINS	SW8290	4J09228
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	OCDD	0.000033 B.J	ug/L	1	0.000016	DIOXINS	SW8290	4J09228
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	1,2,3,4,6,7,8-HPCDD	0.000033 B.J	ug/L	1	0.000021	DIOXINS	SW8290	4J09228
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	OCDF	0.000058 B.J	ug/L	1	0.000011	DIOXINS	SW8290	4J09228
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Total HCXDD	0.000043 Q.B.J	ug/L	1	0.000011	DIOXINS	SW8290	4J09228
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	Total TCDF	0.000022 Q.J	ug/L	1	0.000034	DIOXINS	SW8290	4J09228
OU_01	KH30181	7-Oct-04	LF10-MW103	REG	1,2,3,7,8-HXCDF	0.000028 Q.B.J	ug/L	1	0.000015	DIOXINS	SW8290	4J09228
OU_01	KH30183	7-Oct-04	LF10-MW106	REG	Iron	160	ug/L	1	100	METALS	E200.7	AAJ090229
OU_01	KH30183	7-Oct-04	LF10-MW106	REG	Magnesium	38000	ug/L	1	5000	METALS	E200.7	AAJ090229
OU_01	KH30183	7-Oct-04	LF10-MW106	REG	Potassium	10400	ug/L	1	5000	METALS	E200.7	AAJ090229
OU_01	KH30183	7-Oct-04	LF10-MW106	REG	Sodium	5600	ug/L	1	5000	METALS	E200.7	AAJ090229
OU_01	KH30183	7-Oct-04	LF10-MW106	REG	Barium	560	ug/L	1	200	METALS	E200.7	AAJ090229
OU_01	KH30183	7-Oct-04	LF10-MW106	REG	Calcium	85000	ug/L	1	5000	METALS	E200.7	AAJ090229
OU_01	KH30184	6-Oct-04	LF10-MW10C	AB	Toluene	1.5	ug/L	1	1	VOLATILES	SW82608	AAJ080149
OU_01	KH30184	6-Oct-04	LF10-MW10C	AB	Total Xylenes	0.98 J	ug/L	1	1	VOLATILES	SW82608	AAJ080149
OU_01	KH30184	6-Oct-04	LF10-MW10C	AB	Benzene	0.26 J	ug/L	1	1	VOLATILES	SW82608	AAJ080149

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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	Iron	170	ug/L	1	100	METALS	E200.7	AAJ080149
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	Magnesium	43800	ug/L	1	5000	METALS	E200.7	AAJ080149
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	Manganese	37	ug/L	1	15	METALS	E200.7	AAJ080149
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	Sodium	9500	ug/L	1	5000	METALS	E200.7	AAJ080149
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	Calcium	103000	ug/L	1	5000	METALS	E200.7	AAJ080149
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	Total PCDD	0.0000048 Q J B	ug/L	1	0.0000013	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	OCDD	0.000012 B J	ug/L	1	0.0000028	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	Total HXCD	0.000076 Q J B	ug/L	1	0.0000016	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	1,2,3,4,7,8-HXCD	0.000005 B J	ug/L	1	0.000002	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	Total PCDD	0.0000018 B Q J	ug/L	1	0.0000016	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	Total HPCDD	0.000005 B J	ug/L	1	0.000002	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	Total HPCDF	0.0000075 Q B J	ug/L	1	0.0000015	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	OCDF	0.0000088 B J	ug/L	1	0.0000025	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	1,2,3,4,7,8-HXCD	0.0000023 Q B J	ug/L	1	0.0000016	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	1,2,3,4,7,8-HXCD	0.0000023 Q B J	ug/L	1	0.0000016	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	Total HXCD	0.0000023 Q B J	ug/L	1	0.0000016	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	2,3,4,7,8-PECDF	0.00001 Q B J	ug/L	1	0.0000013	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	1,2,3,6,7,8-HXCD	0.0000026 Q B J	ug/L	1	0.0000012	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	1,2,3,6,7,8-HXCD	0.0000016 Q B J	ug/L	1	0.0000011	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	1,2,3,6,7,8-HXCD	0.0000032 B J	ug/L	1	0.0000017	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	2,3,4,6,7,8-HXCD	0.0000021 Q B J	ug/L	1	0.0000014	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	1,2,3,4,6,7,8-HXCD	0.0000023 Q B J	ug/L	1	0.0000013	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	1,2,3,4,6,7,8-HXCD	0.0000023 Q B J	ug/L	1	0.0000011	DIOXINS	SW8290	4J06324
OU_01	KH30185	8-Oct-04	LF10-MW10C	REG	1,2,3,4,6,7,8-HXCD	0.0000041 Q B J	ug/L	1	0.0000023	DIOXINS	SW8290	4J06324
OU_01	KH30186	11-Oct-04	LF10-MW11A	REG	Iron	2000	ug/L	1	100	METALS	E200.7	AAJ130130
OU_01	KH30186	11-Oct-04	LF10-MW11A	REG	Magnesium	37600	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30186	11-Oct-04	LF10-MW11A	REG	Manganese	87	ug/L	1	15	METALS	E200.7	AAJ130130
OU_01	KH30186	11-Oct-04	LF10-MW11A	REG	Sodium	8200	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30186	11-Oct-04	LF10-MW11A	REG	Barium	310	ug/L	1	200	METALS	E200.7	AAJ130130
OU_01	KH30186	11-Oct-04	LF10-MW11A	REG	Calcium	95700	ug/L	1	5000	METALS	E200.7	AAJ130130
OU_01	KH30186	11-Oct-04	LF10-MW11A	REG	bis(2-Ethylhexyl)phthalate	0.8 J	ug/L	1	10	SEMI-VOLATILES	SW8270C	AAJ130130
OU_01	KH30187	12-Oct-04	LF10-MW11B	FD	Iron	3900	ug/L	1	100	METALS	E200.7	AAJ140122
OU_01	KH30187	12-Oct-04	LF10-MW11B	FD	Magnesium	51700	ug/L	1	5000	METALS	E200.7	AAJ140122
OU_01	KH30187	12-Oct-04	LF10-MW11B	FD	Manganese	88	ug/L	1	15	METALS	E200.7	AAJ140122
OU_01	KH30187	12-Oct-04	LF10-MW11B	FD	Sodium	15100	ug/L	1	5000	METALS	E200.7	AAJ140122
OU_01	KH30187	12-Oct-04	LF10-MW11B	FD	Barium	250	ug/L	1	200	METALS	E200.7	AAJ140122
OU_01	KH30187	12-Oct-04	LF10-MW11B	FD	Calcium	135000	ug/L	1	5000	METALS	E200.7	AAJ140122
OU_01	KH30188	12-Oct-04	LF10-MW11B	REG	Iron	4000	ug/L	1	100	METALS	E200.7	AAJ140122
OU_01	KH30188	12-Oct-04	LF10-MW11B	REG	Magnesium	51100	ug/L	1	5000	METALS	E200.7	AAJ140122
OU_01	KH30188	12-Oct-04	LF10-MW11B	REG	Manganese	88	ug/L	1	15	METALS	E200.7	AAJ140122
OU_01	KH30188	12-Oct-04	LF10-MW11B	REG	Sodium	15000	ug/L	1	5000	METALS	E200.7	AAJ140122
OU_01	KH30188	12-Oct-04	LF10-MW11B	REG	Barium	250	ug/L	1	200	METALS	E200.7	AAJ140122
OU_01	KH30188	12-Oct-04	LF10-MW11B	REG	Calcium	134000	ug/L	1	5000	METALS	E200.7	AAJ140122
OU_01	KH30188	12-Oct-04	LF10-MW11B	REG	Acetone	1.3 J B	ug/L	1	10	VOLATILES	SW82608	AAJ140122
OU_01	KH30188	12-Oct-04	LF10-MW11B	REG	bis(2-Ethylhexyl)phthalate	1.2 J	ug/L	1	10	SEMI-VOLATILES	SW8270C	AAJ140122
OU_01	KH30188	12-Oct-04	LF10-MW11B	REG	Total HXCD	0.0000024 Q J	ug/L	1	0.0000008	DIOXINS	SW8290	4J13124
FIELDQC	KH30190	4-Oct-04	FIELDQC	TB	Toluene	0.67 J	ug/L	1	1	VOLATILES	SW82608	AAJ060336
FIELDQC	KH30190	4-Oct-04	FIELDQC	TB	Acetone	2.2 J	ug/L	1	10	VOLATILES	SW82608	AAJ060336
FIELDQC	KH30190	4-Oct-04	FIELDQC	TB	2-Butanone	1.3 J	ug/L	1	10	VOLATILES	SW82608	AAJ060336
FIELDQC	KH30191	5-Oct-04	FIELDQC	TB	Total Xylenes	0.88 J	ug/L	1	1	VOLATILES	SW82608	AAJ070185
FIELDQC	KH30191	5-Oct-04	FIELDQC	TB	Acetone	2.7 J	ug/L	1	10	VOLATILES	SW82608	AAJ070185
FIELDQC	KH30191	5-Oct-04	FIELDQC	TB	2-Butanone	1.7 J	ug/L	1	10	VOLATILES	SW82608	AAJ070185
FIELDQC	KH30191	5-Oct-04	FIELDQC	TB	Toluene	0.78 J	ug/L	1	1	VOLATILES	SW82608	AAJ070185
FIELDQC	KH30192	11-Oct-04	FIELDQC	TB	Toluene	0.89 J	ug/L	1	1	VOLATILES	SW82608	AAJ060149
FIELDQC	KH30193	11-Oct-04	FIELDQC	TB	Toluene	0.72 J	ug/L	1	1	VOLATILES	SW82608	AAJ130130
FIELDQC	KH30193	11-Oct-04	FIELDQC	TB	Total Xylenes	0.88 J	ug/L	1	1	VOLATILES	SW82608	AAJ130130
FIELDQC	KH30193	11-Oct-04	FIELDQC	TB	Acetone	3.2 J	ug/L	1	10	VOLATILES	SW82608	AAJ130130
FIELDQC	KH30193	11-Oct-04	FIELDQC	TB	2-Butanone	1.4 J	ug/L	1	10	VOLATILES	SW82608	AAJ130130
FIELDQC	KH30194	13-Oct-04	FIELDQC	TB	Toluene	0.73 J	ug/L	1	1	VOLATILES	SW82608	AAJ150115
FIELDQC	KH30194	13-Oct-04	FIELDQC	TB	Total Xylenes	0.88 J	ug/L	1	1	VOLATILES	SW82608	AAJ150115
FIELDQC	KH30194	13-Oct-04	FIELDQC	TB	Acetone	3 J B	ug/L	1	10	VOLATILES	SW82608	AAJ150115
FIELDQC	KH30194	13-Oct-04	FIELDQC	TB	Benzene	0.31 J	ug/L	1	1	VOLATILES	SW82608	AAJ150115
FIELDQC	KH30194	13-Oct-04	FIELDQC	TB	2-Butanone	1.9 J	ug/L	1	10	VOLATILES	SW82608	AAJ150115

**Table C1**  
**WPAFB OU1 Groundwater Analytical Data (Detects Only) - July and October 2004**  
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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
FIELDOC	KH30196	18-Oct-04	FIELDOC	TB	Styrene	0.59 J	ug/L	1	1	VOLATILES	SWB2008	AAJ200117
FIELDOC	KH30196	18-Oct-04	FIELDOC	TB	Toluene	0.81 J	ug/L	1	1	VOLATILES	SWB2008	AAJ200117
FIELDOC	KH30196	18-Oct-04	FIELDOC	TB	Total Xylenes	0.87 J	ug/L	1	1	VOLATILES	SWB2008	AAJ200117
FIELDOC	KH30196	20-Oct-04	FIELDOC	TB	Acetone	4 J	ug/L	1	10	VOLATILES	SWB2008	AAJ200117
FIELDOC	KH30196	20-Oct-04	FIELDOC	TB	Toluene	0.94 J	ug/L	1	1	VOLATILES	SWB2008	4J2187
FIELDOC	KH30196	20-Oct-04	FIELDOC	TB	Total Xylenes	TB	0.59 J	1	1	VOLATILES	SWB2008	4J2187
FIELDOC	KH30196	20-Oct-04	FIELDOC	TB	Acetone	9.5 J	ug/L	1	10	VOLATILES	SWB2008	4J2187
FIELDOC	KH30196	20-Oct-04	FIELDOC	TB	Benzene	0.4 J	ug/L	1	1	VOLATILES	SWB2008	4J2187
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	pH	7.4	STD UNIT	1	0	GENERAL CHEM	E160.1	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Total Suspended Solids	5000	ug/L	1	4000	GENERAL CHEM	E160.2	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Aluminum	280	ug/L	1	200	METALS	E200.7	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Iron	8700	ug/L	1	100	METALS	E200.7	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Lead	16	ug/L	1	3	METALS	E200.7	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Magnesium	69400	ug/L	1	5000	METALS	E200.7	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Manganese	670	ug/L	1	15	METALS	E200.7	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Sodium	127000	ug/L	1	5000	METALS	E200.7	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Barium	570	ug/L	1	200	METALS	E200.7	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Copper	75	ug/L	1	25	METALS	E200.7	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Zinc	110	ug/L	1	50	METALS	E200.7	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Calcium	155000	ug/L	1	5000	METALS	E200.7	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Cod	37000	ug/L	1	20000	GENERAL CHEM	E410.4	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Chlorobenzene	0.84 J	ug/L	1	1	VOLATILES	SWB2008	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	di-1,2-Dichloroethene	2.2	ug/L	1	0.5	VOLATILES	SWB2008	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Acetone	0.9 J	ug/L	1	10	VOLATILES	SWB2008	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Chloroform	3.9	ug/L	1	1	VOLATILES	SWB2008	AAJ200222
OU_01	KQ30031	28-Jul-04	LF8/10-EFF	REG	Benzene	0.28 J	ug/L	1	1	VOLATILES	SWB2008	AAJ200222
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	pH	7.6	STD UNIT	1	0	GENERAL CHEM	E160.1	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Total Suspended Solids	18000	ug/L	1	4000	GENERAL CHEM	E160.2	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Aluminum	280	ug/L	1	200	METALS	E200.7	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Iron	2800	ug/L	1	100	METALS	E200.7	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Lead	5.1	ug/L	1	3	METALS	E200.7	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Magnesium	66800	ug/L	1	5000	METALS	E200.7	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Manganese	480	ug/L	1	15	METALS	E200.7	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Sodium	112000	ug/L	1	5000	METALS	E200.7	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Barium	500	ug/L	1	200	METALS	E200.7	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Copper	80	ug/L	1	25	METALS	E200.7	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Zinc	96	ug/L	1	50	METALS	E200.7	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Calcium	137000	ug/L	1	5000	METALS	E200.7	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Cod	30000	ug/L	1	20000	GENERAL CHEM	E410.4	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Chlorobenzene	2.7	ug/L	1	1	VOLATILES	SWB2008	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	di-1,2-Dichloroethene	7.4	ug/L	1	0.5	VOLATILES	SWB2008	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Acetone	0.19 J	ug/L	1	0.5	VOLATILES	SWB2008	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Chloroform	1.8 J	ug/L	1	10	VOLATILES	SWB2008	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Benzene	0.47 J	ug/L	1	1	VOLATILES	SWB2008	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Vinyl chloride	0.89 J	ug/L	1	1	VOLATILES	SWB2008	AAJ220181
OU_01	KQ30033	21-Oct-04	LF8/10-EFF	REG	Trichloroethene	0.44 J	ug/L	1	2	VOLATILES	SWB2008	AAJ220181

Notes:  
This table displays only the detected parameters at each sampling location.  
Normal sampling locations not displayed were either unable to be sampled or had no parameters detected.  
ug/L = micrograms per Liter

FD = Field Duplicate  
AB = Ambient Blank  
TB = Trip Blank  
J = Estimated Result. Result less than reporting limit.  
B = Method Blank Detection  
D = Diluted result

**Appendix D**

**OU5 Water Level Monitoring Field Logs**

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms***

**Appendix E**

**OU4 Soil Gas Monitoring Field Logs**

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms***

## **Appendix F**

### **OU2 Field Forms**

- F1**    OU2 Groundwater Purge Logs and  
Groundwater and Soil Gas Sample Collection Forms
- F2**    OU2 Chain of Custody Records
- F3**    OU2 Water Level Field Log

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms***

## **Appendix G**

### **OU2 Analytical Data**

**G1 Groundwater Analytical Data (Detects Only)**

**G2 Soil Gas Analytical Data (Detects Only)**



**G1**

**OU2 Groundwater Analytical Data (Detects Only)**

**Table G1**  
**WPAFB OU2 ROD Groundwater Analytical Data (Detects Only) - October 2004**  
**Page 1 of 2**

GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_02	TH30045	7-Oct-04	04-016-M	REG	Methane	1900 D	ug/L	10	5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30045	7-Oct-04	04-016-M	REG	Ethane	1.4 J D	ug/L	10	5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30045	7-Oct-04	04-016-M	REG	Toluene	0.36 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090226
OU_02	TH30045	7-Oct-04	04-016-M	REG	Chlorobenzene	7.6	ug/L	1	1	VOLATILES	SW8260B	AAJ090226
OU_02	TH30045	7-Oct-04	04-016-M	REG	Ether, tert-butyl methyl	1.9 J	ug/L	1	5	VOLATILES	SW8260B	AAJ090226
OU_02	TH30046	7-Oct-04	NEA-MW20-1D	REG	Nitrate	1600	ug/L	1	500	GENERAL CHEM	E300	AAJ090226
OU_02	TH30046	7-Oct-04	NEA-MW20-1D	REG	Sulfate	80000	ug/L	1	1000	GENERAL CHEM	E300	AAJ090226
OU_02	TH30046	7-Oct-04	NEA-MW20-1D	REG	Methane	0.22 J	ug/L	1	0.5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30046	7-Oct-04	NEA-MW20-1D	REG	Acetone	1 J	ug/L	1	10	VOLATILES	SW8260B	AAJ090226
OU_02	TH30047	7-Oct-04	NEA-MW20-2S	FD	Methane	1500 D	ug/L	10	5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30047	7-Oct-04	NEA-MW20-2S	FD	Total Xylenes	1.6 J D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30047	7-Oct-04	NEA-MW20-2S	FD	Benzene	24 D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30047	7-Oct-04	NEA-MW20-2S	FD	Methylene chloride	0.92 J B D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30048	7-Oct-04	NEA-MW20-2S	REG	Sulfate	1000	ug/L	1	1000	GENERAL CHEM	E300	AAJ090226
OU_02	TH30048	7-Oct-04	NEA-MW20-2S	REG	Methane	1500 D	ug/L	5	2.5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30048	7-Oct-04	NEA-MW20-2S	REG	Total Xylenes	1.5 J D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30048	7-Oct-04	NEA-MW20-2S	REG	Benzene	23 D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30048	7-Oct-04	NEA-MW20-2S	REG	Methylene chloride	0.76 J B D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30049	7-Oct-04	NEA-MW21-2D	REG	Nitrate	1500	ug/L	1	500	GENERAL CHEM	E300	AAJ090226
OU_02	TH30049	7-Oct-04	NEA-MW21-2D	REG	Sulfate	69400	ug/L	1	1000	GENERAL CHEM	E300	AAJ090226
OU_02	TH30049	7-Oct-04	NEA-MW21-2D	REG	Methane	0.19 J	ug/L	1	0.5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30050	7-Oct-04	NEA-MW21-3S	REG	Methane	1100 D	ug/L	5	2.5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30050	7-Oct-04	NEA-MW21-3S	REG	Ethylbenzene	1.4 J D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30050	7-Oct-04	NEA-MW21-3S	REG	Total Xylenes	1.1 J D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30050	7-Oct-04	NEA-MW21-3S	REG	Benzene	1.3 J D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30050	7-Oct-04	NEA-MW21-3S	REG	Methylene chloride	1 J B D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30051	7-Oct-04	NEA-MW26-3S	REG	Sulfate	39600	ug/L	1	1000	GENERAL CHEM	E300	AAJ090226
OU_02	TH30051	7-Oct-04	NEA-MW26-3S	REG	Methane	58	ug/L	1	0.5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30051	7-Oct-04	NEA-MW26-3S	REG	Acetone	0.88 J	ug/L	1	10	VOLATILES	SW8260B	AAJ090226
OU_02	TH30052	7-Oct-04	NEA-MW28-5S	REG	Sulfate	7000	ug/L	1	1000	GENERAL CHEM	E300	AAJ090226
OU_02	TH30052	7-Oct-04	NEA-MW28-5S	REG	Methane	1100 D	ug/L	10	5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30052	7-Oct-04	NEA-MW28-5S	REG	Methylene chloride	3.4 B D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30053	7-Oct-04	OW-1	FD	Methane	2800 D	ug/L	10	5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30053	7-Oct-04	OW-1	FD	Toluene	0.37 J D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30053	7-Oct-04	OW-1	FD	Benzene	0.98 J D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30053	7-Oct-04	OW-1	FD	Methylene chloride	1.2 J B D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30054	7-Oct-04	OW-1	REG	Methane	2400 D	ug/L	10	5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30054	7-Oct-04	OW-1	REG	Benzene	0.89 J D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30054	7-Oct-04	OW-1	REG	Methylene chloride	0.94 J B D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30055	7-Oct-04	OW-2	REG	Methane	3100 D	ug/L	10	5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30055	7-Oct-04	OW-2	REG	Chlorobenzene	1.2 J D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30055	7-Oct-04	OW-2	REG	Methylene chloride	2.2 B D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30056	7-Oct-04	OW-3	REG	Methane	1800 D	ug/L	10	5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30056	7-Oct-04	OW-3	REG	Methylene chloride	2.5 B D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226

**Table G1**  
**WPAFB OU2 ROD Groundwater Analytical Data (Detects Only) - October 2004**  
**Page 2 of 2**

GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_02	TH30057	7-Oct-04	OW-4	AB	Methane	0.18 J	ug/L	1	0.5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30057	7-Oct-04	OW-4	AB	Toluene	1.5	ug/L	1	1	VOLATILES	SW8260B	AAJ090226
OU_02	TH30057	7-Oct-04	OW-4	AB	Total Xylenes	1.3	ug/L	1	1	VOLATILES	SW8260B	AAJ090226
OU_02	TH30057	7-Oct-04	OW-4	AB	Acetone	2.9 J	ug/L	1	10	VOLATILES	SW8260B	AAJ090226
OU_02	TH30057	7-Oct-04	OW-4	AB	Benzene	0.31 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090226
OU_02	TH30058	7-Oct-04	OW-4	REG	Sulfate	42800	ug/L	1	1000	GENERAL CHEM	E300	AAJ090226
OU_02	TH30058	7-Oct-04	OW-4	REG	Methane	230	ug/L	1	0.5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30059	7-Oct-04	P18-1	REG	Methane	1100 D	ug/L	5	2.5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30059	7-Oct-04	P18-1	REG	Methylene chloride	0.66 J B D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30060	7-Oct-04	P18-2	REG	Methane	3400 D	ug/L	10	5	GASES	RSKSOP-175	AAJ090226
OU_02	TH30060	7-Oct-04	P18-2	REG	Chlorobenzene	0.57 J D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30060	7-Oct-04	P18-2	REG	Total Xylenes	1.2 J D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
OU_02	TH30060	7-Oct-04	P18-2	REG	Methylene chloride	0.91 J B D	ug/L	2	2	VOLATILES	SW8260B	AAJ090226
FIELDQC	TH30061	7-Oct-04	FIELDQC	TB	Toluene	0.81 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090226
FIELDQC	TH30061	7-Oct-04	FIELDQC	TB	Total Xylenes	0.86 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090226
FIELDQC	TH30061	7-Oct-04	FIELDQC	TB	Acetone	3 J	ug/L	1	10	VOLATILES	SW8260B	AAJ090226
FIELDQC	TH30061	7-Oct-04	FIELDQC	TB	Benzene	0.33 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090226

**Notes:**

This table displays only the detected parameters at each sampling location. Normal sampling locations not displayed here were either unable to be sampled or had no parameters detected.

ug/L = micrograms per Liter

FD = Field Duplicate

AB = Ambient Blank

TB = Trip Blank

J = Estimated Result. Result less than reporting limit.

B = Method Blank Detection

D = Diluted result

**G2**

**OU2 Soil Gas Analytical Data (Detects Only)**

**Table G2**  
**WPAFB OU2 Soil Gas Analytical Data (Detects Only) - October 2004**  
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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_02	TH60040	25-Oct-04	ROD-OU2-SV01	REG	Carbon Dioxide	1.3	%(V/V)	1	0.01	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60040	25-Oct-04	ROD-OU2-SV01	REG	Methane	0.00068	%(V/V)	1	0.0002	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60040	25-Oct-04	ROD-OU2-SV01	REG	Oxygen	20	%(V/V)	1	0.1	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60040	25-Oct-04	ROD-OU2-SV01	REG	Ethylbenzene	0.18	ug/L	1	0.087	VOLATILES	TO3	AAJ260225
OU_02	TH60040	25-Oct-04	ROD-OU2-SV01	REG	Toluene	0.34	ug/L	1	0.075	VOLATILES	TO3	AAJ260225
OU_02	TH60040	25-Oct-04	ROD-OU2-SV01	REG	m,p-Xylene	0.24	ug/L	1	0.087	VOLATILES	TO3	AAJ260225
OU_02	TH60040	25-Oct-04	ROD-OU2-SV01	REG	JP-4 (Jet Propulsion Fuel #4)	24	mg/m3	1	5.3	VOLATILES	TO3	AAJ260225
OU_02	TH60040	25-Oct-04	ROD-OU2-SV01	REG	GASOLINE	22	mg/m3	1	4.1	VOLATILES	TO3	AAJ260225
OU_02	TH60040	25-Oct-04	ROD-OU2-SV01	REG	o-Xylene	0.056 J	ug/L	1	0.087	VOLATILES	TO3	AAJ260225
OU_02	TH60041	25-Oct-04	ROD-OU2-SV02	REG	Carbon Dioxide	3.1	%(V/V)	1	0.01	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60041	25-Oct-04	ROD-OU2-SV02	REG	Methane	0.011	%(V/V)	1	0.0002	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60041	25-Oct-04	ROD-OU2-SV02	REG	Oxygen	19	%(V/V)	1	0.1	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60041	25-Oct-04	ROD-OU2-SV02	REG	Ethylbenzene	0.17	ug/L	1	0.087	VOLATILES	TO3	AAJ260225
OU_02	TH60041	25-Oct-04	ROD-OU2-SV02	REG	Toluene	0.23	ug/L	1	0.075	VOLATILES	TO3	AAJ260225
OU_02	TH60041	25-Oct-04	ROD-OU2-SV02	REG	m,p-Xylene	0.85	ug/L	1	0.087	VOLATILES	TO3	AAJ260225
OU_02	TH60041	25-Oct-04	ROD-OU2-SV02	REG	JP-4 (Jet Propulsion Fuel #4)	42	mg/m3	1	5.3	VOLATILES	TO3	AAJ260225
OU_02	TH60041	25-Oct-04	ROD-OU2-SV02	REG	Benzene	0.14	ug/L	1	0.064	VOLATILES	TO3	AAJ260225
OU_02	TH60041	25-Oct-04	ROD-OU2-SV02	REG	GASOLINE	39	mg/m3	1	4.1	VOLATILES	TO3	AAJ260225
OU_02	TH60041	25-Oct-04	ROD-OU2-SV02	REG	o-Xylene	0.09	ug/L	1	0.087	VOLATILES	TO3	AAJ260225
OU_02	TH60042	25-Oct-04	ROD-OU2-SV03	REG	Carbon Dioxide	9.5	%(V/V)	1	0.01	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60042	25-Oct-04	ROD-OU2-SV03	REG	Methane	2.9	%(V/V)	1	0.0002	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60042	25-Oct-04	ROD-OU2-SV03	REG	Oxygen	2.1	%(V/V)	1	0.1	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60042	25-Oct-04	ROD-OU2-SV03	REG	Ethylbenzene	4.7	ug/L	1	0.087	VOLATILES	TO3	AAJ260225
OU_02	TH60042	25-Oct-04	ROD-OU2-SV03	REG	Toluene	7.1	ug/L	1	0.075	VOLATILES	TO3	AAJ260225
OU_02	TH60042	25-Oct-04	ROD-OU2-SV03	REG	m,p-Xylene	11	ug/L	1	0.087	VOLATILES	TO3	AAJ260225
OU_02	TH60042	25-Oct-04	ROD-OU2-SV03	REG	JP-4 (Jet Propulsion Fuel #4)	1100	mg/m3	1	5.3	VOLATILES	TO3	AAJ260225
OU_02	TH60042	25-Oct-04	ROD-OU2-SV03	REG	Benzene	9.1	ug/L	1	0.064	VOLATILES	TO3	AAJ260225
OU_02	TH60042	25-Oct-04	ROD-OU2-SV03	REG	GASOLINE	1100	mg/m3	1	4.1	VOLATILES	TO3	AAJ260225
OU_02	TH60042	25-Oct-04	ROD-OU2-SV03	REG	o-Xylene	2.3	ug/L	1	0.087	VOLATILES	TO3	AAJ260225
OU_02	TH60054	25-Oct-04	ROD-OU2-SV06	FD	Carbon Dioxide	2	%(V/V)	1	0.01	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60054	25-Oct-04	ROD-OU2-SV06	FD	Methane	47	%(V/V)	1	0.0002	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60054	25-Oct-04	ROD-OU2-SV06	FD	Oxygen	1.7	%(V/V)	1	0.1	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60054	25-Oct-04	ROD-OU2-SV06	FD	Ethylbenzene	41 D	ug/L	92	8	VOLATILES	TO3	AAJ260225
OU_02	TH60054	25-Oct-04	ROD-OU2-SV06	FD	Toluene	110 D	ug/L	92	6.9	VOLATILES	TO3	AAJ260225
OU_02	TH60054	25-Oct-04	ROD-OU2-SV06	FD	m,p-Xylene	110 D	ug/L	92	8	VOLATILES	TO3	AAJ260225
OU_02	TH60054	25-Oct-04	ROD-OU2-SV06	FD	JP-4 (Jet Propulsion Fuel #4)	16000 D	mg/m3	92	490	VOLATILES	TO3	AAJ260225
OU_02	TH60054	25-Oct-04	ROD-OU2-SV06	FD	Benzene	160 D	ug/L	92	5.9	VOLATILES	TO3	AAJ260225
OU_02	TH60054	25-Oct-04	ROD-OU2-SV06	FD	GASOLINE	16000 D	mg/m3	92	380	VOLATILES	TO3	AAJ260225
OU_02	TH60054	25-Oct-04	ROD-OU2-SV06	FD	o-Xylene	11 D	ug/L	92	8	VOLATILES	TO3	AAJ260225
OU_02	TH60043	25-Oct-04	ROD-OU2-SV06	REG	Carbon Dioxide	2	%(V/V)	1	0.01	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60043	25-Oct-04	ROD-OU2-SV06	REG	Methane	48	%(V/V)	1	0.0002	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60043	25-Oct-04	ROD-OU2-SV06	REG	Oxygen	1.4	%(V/V)	1	0.1	GENERAL CHEM	D1946	AAJ260225
OU_02	TH60043	25-Oct-04	ROD-OU2-SV06	REG	Ethylbenzene	44 D	ug/L	92	8	VOLATILES	TO3	AAJ260225
OU_02	TH60043	25-Oct-04	ROD-OU2-SV06	REG	Toluene	110 D	ug/L	92	6.9	VOLATILES	TO3	AAJ260225
OU_02	TH60043	25-Oct-04	ROD-OU2-SV06	REG	m,p-Xylene	120 D	ug/L	92	8	VOLATILES	TO3	AAJ260225
OU_02	TH60043	25-Oct-04	ROD-OU2-SV06	REG	JP-4 (Jet Propulsion Fuel #4)	20000 B D	mg/m3	92	490	VOLATILES	TO3	AAJ260225
OU_02	TH60043	25-Oct-04	ROD-OU2-SV06	REG	Benzene	170 D	ug/L	92	5.9	VOLATILES	TO3	AAJ260225
OU_02	TH60043	25-Oct-04	ROD-OU2-SV06	REG	GASOLINE	16000 B D	mg/m3	92	380	VOLATILES	TO3	AAJ260225
OU_02	TH60043	25-Oct-04	ROD-OU2-SV06	REG	o-Xylene	9.7 D	ug/L	92	8	VOLATILES	TO3	AAJ260225

**Table G2**  
**WPAFB OU2 Soil Gas Analytical Data (Detects Only) - October 2004**  
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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_02	TH60044	25-Oct-04	ROD-OU2-SV07	REG	Carbon Dioxide	9.2	%(v/v)	1	0.01	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60044	25-Oct-04	ROD-OU2-SV07	REG	Methane	1.5	%(v/v)	1	0.0002	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60044	25-Oct-04	ROD-OU2-SV07	REG	Oxygen	1.8	%(v/v)	1	0.1	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60044	25-Oct-04	ROD-OU2-SV07	REG	Ethylbenzene	1.5	ug/L	1	0.087	VOLATILES	TC3	AAJ280225
OU_02	TH60044	25-Oct-04	ROD-OU2-SV07	REG	Toluene	4.2	ug/L	1	0.075	VOLATILES	TC3	AAJ280225
OU_02	TH60044	25-Oct-04	ROD-OU2-SV07	REG	m,p-Xylene	5.8	ug/L	1	0.087	VOLATILES	TC3	AAJ280225
OU_02	TH60044	25-Oct-04	ROD-OU2-SV07	REG	JP-4 (Jet Propulsion Fuel #4)	560	mg/m3	1	5.3	VOLATILES	TC3	AAJ280225
OU_02	TH60044	25-Oct-04	ROD-OU2-SV07	REG	Benzene	5.3	ug/L	1	0.064	VOLATILES	TC3	AAJ280225
OU_02	TH60044	25-Oct-04	ROD-OU2-SV07	REG	GASOLINE	520	mg/m3	1	4.1	VOLATILES	TC3	AAJ280225
OU_02	TH60044	25-Oct-04	ROD-OU2-SV07	REG	c-Xylene	1.2	ug/L	1	0.087	VOLATILES	TC3	AAJ280225
OU_02	TH60046	25-Oct-04	ROD-OU2-SV08	REG	Carbon Dioxide	1.1	%(v/v)	1	0.01	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60046	25-Oct-04	ROD-OU2-SV08	REG	Methane	16	%(v/v)	1	0.0002	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60046	25-Oct-04	ROD-OU2-SV08	REG	Oxygen	15	%(v/v)	1	0.1	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60046	25-Oct-04	ROD-OU2-SV08	REG	Ethylbenzene	19 D	ug/L	21	1.8	VOLATILES	TC3	AAJ280225
OU_02	TH60046	25-Oct-04	ROD-OU2-SV08	REG	Toluene	54 D	ug/L	21	1.6	VOLATILES	TC3	AAJ280225
OU_02	TH60046	25-Oct-04	ROD-OU2-SV08	REG	m,p-Xylene	58 D	ug/L	21	1.8	VOLATILES	TC3	AAJ280225
OU_02	TH60046	25-Oct-04	ROD-OU2-SV08	REG	JP-4 (Jet Propulsion Fuel #4)	7800 D	mg/m3	21	110	VOLATILES	TC3	AAJ280225
OU_02	TH60046	25-Oct-04	ROD-OU2-SV08	REG	Benzene	89 D	ug/L	21	1.3	VOLATILES	TC3	AAJ280225
OU_02	TH60046	25-Oct-04	ROD-OU2-SV08	REG	GASOLINE	7300 D	mg/m3	21	86	VOLATILES	TC3	AAJ280225
OU_02	TH60046	25-Oct-04	ROD-OU2-SV08	REG	c-Xylene	5.7 D	ug/L	21	1.8	VOLATILES	TC3	AAJ280225
OU_02	TH60048	25-Oct-04	ROD-OU2-SV09	AB	Carbon Dioxide	0.077	%(v/v)	1	0.01	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60048	25-Oct-04	ROD-OU2-SV09	AB	Methane	0.00048	%(v/v)	1	0.0002	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60048	25-Oct-04	ROD-OU2-SV09	AB	Oxygen	22	%(v/v)	1	0.1	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60048	25-Oct-04	ROD-OU2-SV09	AB	Ethylbenzene	0.034 J	ug/L	1	0.087	VOLATILES	TC3	AAJ280225
OU_02	TH60048	25-Oct-04	ROD-OU2-SV09	AB	Toluene	0.035 J	ug/L	1	0.075	VOLATILES	TC3	AAJ280225
OU_02	TH60048	25-Oct-04	ROD-OU2-SV09	AB	m,p-Xylene	0.1	ug/L	1	0.087	VOLATILES	TC3	AAJ280225
OU_02	TH60048	25-Oct-04	ROD-OU2-SV09	AB	JP-4 (Jet Propulsion Fuel #4)	12	mg/m3	1	5.3	VOLATILES	TC3	AAJ280225
OU_02	TH60048	25-Oct-04	ROD-OU2-SV09	AB	GASOLINE	11	mg/m3	1	4.1	VOLATILES	TC3	AAJ280225
OU_02	TH60047	25-Oct-04	ROD-OU2-SV09	REG	Carbon Dioxide	3.3	%(v/v)	1	0.01	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60047	25-Oct-04	ROD-OU2-SV09	REG	Methane	0.0033	%(v/v)	1	0.0002	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60047	25-Oct-04	ROD-OU2-SV09	REG	Oxygen	19	%(v/v)	1	0.1	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60047	25-Oct-04	ROD-OU2-SV09	REG	Ethylbenzene	0.053 J	ug/L	1	0.087	VOLATILES	TC3	AAJ280225
OU_02	TH60047	25-Oct-04	ROD-OU2-SV09	REG	Toluene	0.089 J	ug/L	1	0.075	VOLATILES	TC3	AAJ280225
OU_02	TH60047	25-Oct-04	ROD-OU2-SV09	REG	m,p-Xylene	0.19	ug/L	1	0.087	VOLATILES	TC3	AAJ280225
OU_02	TH60047	25-Oct-04	ROD-OU2-SV09	REG	JP-4 (Jet Propulsion Fuel #4)	20	mg/m3	1	5.3	VOLATILES	TC3	AAJ280225
OU_02	TH60047	25-Oct-04	ROD-OU2-SV09	REG	Benzene	0.034 J	ug/L	1	0.064	VOLATILES	TC3	AAJ280225
OU_02	TH60047	25-Oct-04	ROD-OU2-SV09	REG	GASOLINE	19	mg/m3	1	4.1	VOLATILES	TC3	AAJ280225
OU_02	TH60047	25-Oct-04	ROD-OU2-SV09	REG	c-Xylene	0.031 J	ug/L	1	0.087	VOLATILES	TC3	AAJ280225
OU_02	TH60049	25-Oct-04	ROD-OU2-SV10	REG	Carbon Dioxide	9.5	%(v/v)	1	0.01	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60049	25-Oct-04	ROD-OU2-SV10	REG	Methane	7.6	%(v/v)	1	0.0002	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60049	25-Oct-04	ROD-OU2-SV10	REG	Oxygen	2	%(v/v)	1	0.1	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60049	25-Oct-04	ROD-OU2-SV10	REG	Ethylbenzene	35 D	ug/L	21	1.8	VOLATILES	TC3	AAJ280225
OU_02	TH60049	25-Oct-04	ROD-OU2-SV10	REG	Toluene	34 D	ug/L	21	1.6	VOLATILES	TC3	AAJ280225
OU_02	TH60049	25-Oct-04	ROD-OU2-SV10	REG	m,p-Xylene	78 D	ug/L	21	1.8	VOLATILES	TC3	AAJ280225
OU_02	TH60049	25-Oct-04	ROD-OU2-SV10	REG	JP-4 (Jet Propulsion Fuel #4)	5500 D	mg/m3	21	110	VOLATILES	TC3	AAJ280225
OU_02	TH60049	25-Oct-04	ROD-OU2-SV10	REG	Benzene	46 D	ug/L	21	1.3	VOLATILES	TC3	AAJ280225
OU_02	TH60049	25-Oct-04	ROD-OU2-SV10	REG	GASOLINE	5100 D	mg/m3	21	86	VOLATILES	TC3	AAJ280225
OU_02	TH60049	25-Oct-04	ROD-OU2-SV10	REG	c-Xylene	9.7 D	ug/L	21	1.8	VOLATILES	TC3	AAJ280225

**Table G2**  
**WPAFB OU2 Soil Gas Analytical Data (Detects Only) - October 2004**  
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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_02	TH60045	27-Oct-04	ROD-OU2-SV11	FD	Carbon Dioxide	7.2	%(v/v)	1	0.01	GENERAL CHEM	D1946	AAJ280226
OU_02	TH60045	27-Oct-04	ROD-OU2-SV11	FD	Oxygen	6.8	%(v/v)	1	0.1	GENERAL CHEM	D1946	AAJ280226
OU_02	TH60045	27-Oct-04	ROD-OU2-SV11	FD	Ethylbenzene	0.022 J	ug/L	1	0.087	VOLATILES	TO3	AAJ280226
OU_02	TH60045	27-Oct-04	ROD-OU2-SV11	FD	m,p-Xylene	0.075 J	ug/L	1	0.087	VOLATILES	TO3	AAJ280226
OU_02	TH60045	27-Oct-04	ROD-OU2-SV11	FD	JP-4 (Jet Propulsion Fuel #4)	4.7 J B	mg/m3	1	5.3	VOLATILES	TO3	AAJ280226
OU_02	TH60045	27-Oct-04	ROD-OU2-SV11	FD	GASOLINE	4.3 B	mg/m3	1	4.1	VOLATILES	TO3	AAJ280226
OU_02	TH60050	27-Oct-04	ROD-OU2-SV11	REG	Carbon Dioxide	6.3	%(v/v)	1	0.01	GENERAL CHEM	D1946	AAJ280226
OU_02	TH60050	27-Oct-04	ROD-OU2-SV11	REG	Methane	0.00012 J	%(v/v)	1	0.0002	GENERAL CHEM	D1946	AAJ280226
OU_02	TH60050	27-Oct-04	ROD-OU2-SV11	REG	Oxygen	8.9	%(v/v)	1	0.1	GENERAL CHEM	D1946	AAJ280226
OU_02	TH60050	27-Oct-04	ROD-OU2-SV11	REG	Ethylbenzene	0.019 J	ug/L	1	0.087	VOLATILES	TO3	AAJ280226
OU_02	TH60050	27-Oct-04	ROD-OU2-SV11	REG	m,p-Xylene	0.062 J	ug/L	1	0.087	VOLATILES	TO3	AAJ280226
OU_02	TH60050	27-Oct-04	ROD-OU2-SV11	REG	JP-4 (Jet Propulsion Fuel #4)	6.2 B	mg/m3	1	5.3	VOLATILES	TO3	AAJ280226
OU_02	TH60050	27-Oct-04	ROD-OU2-SV11	REG	GASOLINE	5.7 B	mg/m3	1	4.1	VOLATILES	TO3	AAJ280226
OU_02	TH60052	25-Oct-04	ROD-OU2-SV13	REG	Carbon Dioxide	2.5	%(v/v)	1	0.01	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60052	25-Oct-04	ROD-OU2-SV13	REG	Methane	0.00015 J	%(v/v)	1	0.0002	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60052	25-Oct-04	ROD-OU2-SV13	REG	Oxygen	20	%(v/v)	1	0.1	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60052	25-Oct-04	ROD-OU2-SV13	REG	Ethylbenzene	0.037 J	ug/L	1	0.087	VOLATILES	TO3	AAJ280225
OU_02	TH60052	25-Oct-04	ROD-OU2-SV13	REG	Toluene	0.062 J	ug/L	1	0.075	VOLATILES	TO3	AAJ280225
OU_02	TH60052	25-Oct-04	ROD-OU2-SV13	REG	m,p-Xylene	0.11	ug/L	1	0.087	VOLATILES	TO3	AAJ280225
OU_02	TH60052	25-Oct-04	ROD-OU2-SV13	REG	JP-4 (Jet Propulsion Fuel #4)	7.9	mg/m3	1	5.3	VOLATILES	TO3	AAJ280225
OU_02	TH60052	25-Oct-04	ROD-OU2-SV13	REG	GASOLINE	7.3	mg/m3	1	4.1	VOLATILES	TO3	AAJ280225
OU_02	TH60053	25-Oct-04	ROD-OU2-SV14	REG	Carbon Dioxide	11	%(v/v)	1	0.01	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60053	25-Oct-04	ROD-OU2-SV14	REG	Methane	0.98	%(v/v)	1	0.0002	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60053	25-Oct-04	ROD-OU2-SV14	REG	Oxygen	2.1	%(v/v)	1	0.1	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60053	25-Oct-04	ROD-OU2-SV14	REG	Ethylbenzene	190 D	ug/L	92	8	VOLATILES	TO3	AAJ280225
OU_02	TH60053	25-Oct-04	ROD-OU2-SV14	REG	Toluene	340 D	ug/L	92	8.9	VOLATILES	TO3	AAJ280225
OU_02	TH60053	25-Oct-04	ROD-OU2-SV14	REG	m,p-Xylene	400 D	ug/L	92	8	VOLATILES	TO3	AAJ280225
OU_02	TH60053	25-Oct-04	ROD-OU2-SV14	REG	JP-4 (Jet Propulsion Fuel #4)	28000 D	mg/m3	92	490	VOLATILES	TO3	AAJ280225
OU_02	TH60053	25-Oct-04	ROD-OU2-SV14	REG	Benzene	190 D	ug/L	92	5.9	VOLATILES	TO3	AAJ280225
OU_02	TH60053	25-Oct-04	ROD-OU2-SV14	REG	GASOLINE	28000 D	mg/m3	92	380	VOLATILES	TO3	AAJ280225
OU_02	TH60053	25-Oct-04	ROD-OU2-SV14	REG	o-Xylene	52 D	ug/L	92	8	VOLATILES	TO3	AAJ280225
OU_02	TH60055	25-Oct-04	ROD-OU2-SV15	REG	Carbon Dioxide	2.5	%(v/v)	1	0.01	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60055	25-Oct-04	ROD-OU2-SV15	REG	Methane	0.00099	%(v/v)	1	0.0002	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60055	25-Oct-04	ROD-OU2-SV15	REG	Oxygen	19	%(v/v)	1	0.1	GENERAL CHEM	D1946	AAJ280225
OU_02	TH60055	25-Oct-04	ROD-OU2-SV15	REG	Ethylbenzene	0.048 J	ug/L	1	0.087	VOLATILES	TO3	AAJ280225
OU_02	TH60055	25-Oct-04	ROD-OU2-SV15	REG	Toluene	0.064 J	ug/L	1	0.075	VOLATILES	TO3	AAJ280225
OU_02	TH60055	25-Oct-04	ROD-OU2-SV15	REG	m,p-Xylene	0.16	ug/L	1	0.087	VOLATILES	TO3	AAJ280225
OU_02	TH60055	25-Oct-04	ROD-OU2-SV15	REG	JP-4 (Jet Propulsion Fuel #4)	16	mg/m3	1	5.3	VOLATILES	TO3	AAJ280225
OU_02	TH60055	25-Oct-04	ROD-OU2-SV15	REG	Benzene	0.024 J	ug/L	1	0.084	VOLATILES	TO3	AAJ280225
OU_02	TH60055	25-Oct-04	ROD-OU2-SV15	REG	GASOLINE	14	mg/m3	1	4.1	VOLATILES	TO3	AAJ280225
OU_02	TH60055	25-Oct-04	ROD-OU2-SV15	REG	o-Xylene	0.028 J	ug/L	1	0.087	VOLATILES	TO3	AAJ280225

Notes:  
This table displays only the detected parameters at each sampling location. Normal sampling locations not displayed here  
were either unable to be sampled or had no parameters detected.  
ug/L = micrograms per Liter  
FD = Field Duplicate  
AB = Ambient Blank  
J = Estimated Result. Result less than reporting limit.  
B = Method Blank Detection  
D = Diluted Result

**Appendix H**

**Basewide LTM Groundwater Purge Logs and Sample Collection Forms**

**Bill of Lading from Perma-Fix – October**

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms***



**Appendix I**

**Basewide LTM Chain of Custody Records**

**Please Refer to the Enclosed CD *LTM Report: October 2004 Field Forms***

## **Appendix J**

### **Basewide LTM Semiannual VOCs Analytical Data (Detects Only)**

**Table J1**  
**WPAFB LTM Basewide VOC Analytical Data (Detects Only) - October 2004**  
**Page 1 of 5**

GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
BLDG_59	LH30156	15-Oct-04	B59-MW01	REG	Chloroform	0.63 J	ug/L	1	1	VOLATILES	SW8260B	AAJ160183
BLDG_59	LH30157	12-Oct-04	B59-MW02	REG	cis-1,2-Dichloroethene	1800 D	ug/L	76.92	38	VOLATILES	SW8260B	AAJ140111
BLDG_59	LH30157	12-Oct-04	B59-MW02	REG	trans-1,2-Dichloroethene	7.4 D	ug/L	7.69	3.8	VOLATILES	SW8260B	AAJ140111
BLDG_59	LH30157	12-Oct-04	B59-MW02	REG	Vinyl chloride	57 D	ug/L	7.69	7.7	VOLATILES	SW8260B	AAJ140111
BLDG_59	LH30157	12-Oct-04	B59-MW02	REG	1,1-Dichloroethene	8.8 D	ug/L	7.69	7.7	VOLATILES	SW8260B	AAJ140111
BLDG_59	LH30157	12-Oct-04	B59-MW02	REG	Trichloroethene	2300 D	ug/L	76.92	150	VOLATILES	SW8260B	AAJ140111
BLDG_59	LH30158	12-Oct-04	B59-MW03	REG	1,2-Dichloroethane	0.7 J	ug/L	1	1	VOLATILES	SW8260B	AAJ140111
BLDG_59	LH30158	12-Oct-04	B59-MW03	REG	cis-1,2-Dichloroethene	160 D	ug/L	5.71	2.9	VOLATILES	SW8260B	AAJ140111
BLDG_59	LH30158	12-Oct-04	B59-MW03	REG	trans-1,2-Dichloroethene	5.5	ug/L	1	0.5	VOLATILES	SW8260B	AAJ140111
BLDG_59	LH30158	12-Oct-04	B59-MW03	REG	Benzene	1.9	ug/L	1	1.9	VOLATILES	SW8260B	AAJ140111
BLDG_59	LH30158	12-Oct-04	B59-MW03	REG	Chloroethane	0.83 J	ug/L	1	2	VOLATILES	SW8260B	AAJ140111
BLDG_59	LH30158	12-Oct-04	B59-MW03	REG	Vinyl chloride	26	ug/L	1	1	VOLATILES	SW8260B	AAJ140111
BLDG_59	LH30158	12-Oct-04	B59-MW03	REG	1,1-Dichloroethene	1.2	ug/L	1	1	VOLATILES	SW8260B	AAJ140111
BLDG_59	LH30158	12-Oct-04	B59-MW03	REG	Trichloroethene	42 D	ug/L	5.71	11	VOLATILES	SW8260B	AAJ140111
BLDG_59	LH30159	15-Oct-04	B59-MW04	FD	cis-1,2-Dichloroethene	5.8	ug/L	1	0.5	VOLATILES	SW8260B	AAJ160183
BLDG_59	LH30159	15-Oct-04	B59-MW04	FD	trans-1,2-Dichloroethene	0.69	ug/L	1	0.5	VOLATILES	SW8260B	AAJ160183
BLDG_59	LH30159	15-Oct-04	B59-MW04	FD	Vinyl chloride	2.4	ug/L	1	1	VOLATILES	SW8260B	AAJ160183
BLDG_59	LH30159	15-Oct-04	B59-MW04	FD	Trichloroethene	0.43 J	ug/L	1	2	VOLATILES	SW8260B	AAJ160183
BLDG_59	LH30160	15-Oct-04	B59-MW04	REG	cis-1,2-Dichloroethene	5.8	ug/L	1	0.5	VOLATILES	SW8260B	AAJ160183
BLDG_59	LH30160	15-Oct-04	B59-MW04	REG	trans-1,2-Dichloroethene	0.72	ug/L	1	0.5	VOLATILES	SW8260B	AAJ160183
BLDG_59	LH30160	15-Oct-04	B59-MW04	REG	Benzene	0.24 J	ug/L	1	1	VOLATILES	SW8260B	AAJ160183
BLDG_59	LH30160	15-Oct-04	B59-MW04	REG	Vinyl chloride	2.6	ug/L	1	1	VOLATILES	SW8260B	AAJ160183
BLDG_59	LH30160	15-Oct-04	B59-MW04	REG	Trichloroethene	0.42 J	ug/L	1	2	VOLATILES	SW8260B	AAJ160183
BLDG_79/95	LH30161	8-Oct-04	B79C/D-MW01	REG	cis-1,2-Dichloroethene	8	ug/L	1	0.5	VOLATILES	SW8260B	AAJ090223
BLDG_79/95	LH30161	8-Oct-04	B79C/D-MW01	REG	trans-1,2-Dichloroethene	0.69	ug/L	1	0.5	VOLATILES	SW8260B	AAJ090223
BLDG_79/95	LH30161	8-Oct-04	B79C/D-MW01	REG	Acetone	1 J	ug/L	1	10	VOLATILES	SW8260B	AAJ090223
BLDG_79/95	LH30161	8-Oct-04	B79C/D-MW01	REG	Benzene	0.32 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
BLDG_79/95	LH30161	8-Oct-04	B79C/D-MW01	REG	Vinyl chloride	0.38 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
BLDG_79/95	LH30161	8-Oct-04	B79C/D-MW01	REG	Trichloroethene	30	ug/L	1	2	VOLATILES	SW8260B	AAJ090223
BLDG_79/95	LH30162	12-Oct-04	B79C/D-MW02	REG	Trichloroethene	45 D	ug/L	1.67	3.3	VOLATILES	SW8260B	AAJ140111
BLDG_79/95	LH30163	8-Oct-04	B79C/D-MW03	FD	cis-1,2-Dichloroethene	0.42 J	ug/L	1	0.5	VOLATILES	SW8260B	AAJ090223
BLDG_79/95	LH30163	8-Oct-04	B79C/D-MW03	FD	Trichloroethene	40	ug/L	1	2	VOLATILES	SW8260B	AAJ090223
BLDG_79/95	LH30164	8-Oct-04	B79C/D-MW03	REG	cis-1,2-Dichloroethene	0.44 J	ug/L	1	0.5	VOLATILES	SW8260B	AAJ090223
BLDG_79/95	LH30164	8-Oct-04	B79C/D-MW03	REG	Acetone	0.82 J	ug/L	1	10	VOLATILES	SW8260B	AAJ090223
BLDG_79/95	LH30164	8-Oct-04	B79C/D-MW03	REG	Trichloroethene	40	ug/L	1	2	VOLATILES	SW8260B	AAJ090223
BLDG_79/95	LH30165	8-Oct-04	B79C/D-MW04	REG	cis-1,2-Dichloroethene	0.71	ug/L	1	0.5	VOLATILES	SW8260B	AAJ090223
BLDG_79/95	LH30165	8-Oct-04	B79C/D-MW04	REG	Acetone	0.95 J	ug/L	1	10	VOLATILES	SW8260B	AAJ090223
BLDG_79/95	LH30165	8-Oct-04	B79C/D-MW04	REG	Trichloroethene	45 D	ug/L	2	4	VOLATILES	SW8260B	AAJ090223
BS5	LH30168	19-Oct-04	B55-P-1	REG	Tetrachloroethene	1.3	ug/L	1	1	VOLATILES	SW8260B	AAJ220155
BS5	LH30170	19-Oct-04	B55-P-3	REG	Tetrachloroethene	24	ug/L	1	1	VOLATILES	SW8260B	AAJ220155
BS5	LH30170	19-Oct-04	B55-P-3	REG	Acetone	2 J	ug/L	1	10	VOLATILES	SW8260B	AAJ220155
BS5	LH30170	19-Oct-04	B55-P-3	REG	Chloroform	0.33 J	ug/L	1	1	VOLATILES	SW8260B	AAJ220155
BS5	LH30171	19-Oct-04	B55-P-4	REG	Tetrachloroethene	25	ug/L	1	1	VOLATILES	SW8260B	AAJ220155
BS5	LH30171	19-Oct-04	B55-P-4	REG	Acetone	1.7 J	ug/L	1	10	VOLATILES	SW8260B	AAJ220155
BS5	LH30171	19-Oct-04	B55-P-4	REG	Chloroform	0.39 J	ug/L	1	1	VOLATILES	SW8260B	AAJ220155
OU_02	LH30193	12-Oct-04	NEA-MW27-31	REG	Tetrachloroethene	7.1	ug/L	1	1	VOLATILES	SW8260B	AAJ140111
OU_03	LH30151	12-Oct-04	05-DM-1231	REG	cis-1,2-Dichloroethene	0.46 J	ug/L	1	0.5	VOLATILES	SW8260B	AAJ140111
OU_03	LH30151	12-Oct-04	05-DM-1231	REG	Trichloroethene	2.7	ug/L	1	2	VOLATILES	SW8260B	AAJ140111

**Table J1**  
**WPAFB LTM Basewide VOC Analytical Data (Detects Only) - October 2004**  
**Page 2 of 5**

GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_03	LH30152	21-Oct-04	05-DM-123S	FD	dis-1,2-Dichloroethene	0.7	ug/L	1	0.5	VOLATILES	SW8260B	AAJ220155
OU_03	LH30152	21-Oct-04	05-DM-123S	FD	Trichloroethene	2.5	ug/L	1	2	VOLATILES	SW8260B	AAJ220155
OU_03	LH30153	21-Oct-04	05-DM-123S	REG	dis-1,2-Dichloroethene	0.84	ug/L	1	0.5	VOLATILES	SW8260B	AAJ220155
OU_03	LH30153	21-Oct-04	05-DM-123S	REG	Trichloroethene	2.3	ug/L	1	2	VOLATILES	SW8260B	AAJ220155
OU_03	LH30154	8-Oct-04	07-520-M	REG	Chlorobenzene	0.85 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
OU_03	LH30154	8-Oct-04	07-520-M	REG	dis-1,2-Dichloroethene	0.25 J	ug/L	1	0.5	VOLATILES	SW8260B	AAJ090223
OU_03	LH30154	8-Oct-04	07-520-M	REG	Acetone	1.2 J	ug/L	1	10	VOLATILES	SW8260B	AAJ090223
OU_03	LH30180	21-Oct-04	FTA2:MW02C	REG	Acetone	2.2 J	ug/L	1	10	VOLATILES	SW8260B	AAJ220155
OU_03	LH30180	21-Oct-04	FTA2:MW02C	REG	Chloromethane	0.22 J	ug/L	1	2	VOLATILES	SW8260B	AAJ220155
OU_03	LH30180	21-Oct-04	FTA2:MW02C	REG	Vinyl chloride	0.99 J	ug/L	1	1	VOLATILES	SW8260B	AAJ220155
OU_04	LH30166	8-Oct-04	BMP-OU4-01B-60	REG	dis-1,2-Dichloroethene	1.4	ug/L	1	0.5	VOLATILES	SW8260B	AAJ090223
OU_04	LH30166	8-Oct-04	BMP-OU4-01B-60	REG	Acetone	0.88 J	ug/L	1	10	VOLATILES	SW8260B	AAJ090223
OU_04	LH30166	8-Oct-04	BMP-OU4-01B-60	REG	1,1,1-Trichloroethane	0.27 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
OU_04	LH30166	8-Oct-04	BMP-OU4-01B-60	REG	Vinyl chloride	0.35 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
OU_04	LH30166	8-Oct-04	BMP-OU4-01B-60	REG	1,1-Dichloroethane	0.45 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
OU_04	LH30166	8-Oct-04	BMP-OU4-01B-60	REG	Trichloroethene	2.6	ug/L	1	2	VOLATILES	SW8260B	AAJ090223
OU_04	LH30167	8-Oct-04	BMP-OU4-01C-84	REG	dis-1,2-Dichloroethene	0.34 J	ug/L	1	0.5	VOLATILES	SW8260B	AAJ090223
OU_04	LH30167	8-Oct-04	BMP-OU4-01C-84	REG	Acetone	0.78 J	ug/L	1	10	VOLATILES	SW8260B	AAJ090223
OU_04	LH30205	8-Oct-04	OU4-MW-02A	REG	dis-1,2-Dichloroethene	6.1	ug/L	1	0.5	VOLATILES	SW8260B	AAJ090223
OU_04	LH30205	8-Oct-04	OU4-MW-02A	REG	trans-1,2-Dichloroethene	0.3 J	ug/L	1	0.5	VOLATILES	SW8260B	AAJ090223
OU_04	LH30205	8-Oct-04	OU4-MW-02A	REG	1,1-Dichloroethane	0.27 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
OU_04	LH30205	8-Oct-04	OU4-MW-02A	REG	Trichloroethene	0.33 J	ug/L	1	2	VOLATILES	SW8260B	AAJ090223
OU_04	LH30206	8-Oct-04	OU4-MW-02B	FD	dis-1,2-Dichloroethene	0.28 J	ug/L	1	0.5	VOLATILES	SW8260B	AAJ090223
OU_04	LH30206	8-Oct-04	OU4-MW-02B	FD	Acetone	0.88 J	ug/L	1	10	VOLATILES	SW8260B	AAJ090223
OU_04	LH30206	8-Oct-04	OU4-MW-02B	FD	1,1,1-Trichloroethane	1.9	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
OU_04	LH30206	8-Oct-04	OU4-MW-02B	FD	Trichloroethene	9.3	ug/L	1	2	VOLATILES	SW8260B	AAJ090223
OU_04	LH30207	8-Oct-04	OU4-MW-02B	REG	dis-1,2-Dichloroethene	0.3 J	ug/L	1	0.5	VOLATILES	SW8260B	AAJ090223
OU_04	LH30207	8-Oct-04	OU4-MW-02B	REG	1,1,1-Trichloroethane	1.7	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
OU_04	LH30207	8-Oct-04	OU4-MW-02B	REG	Trichloroethene	8.8	ug/L	1	2	VOLATILES	SW8260B	AAJ090223
OU_04	LH30208	12-Oct-04	OU4-MW-03B	REG	dis-1,2-Dichloroethene	0.35 J	ug/L	1	0.5	VOLATILES	SW8260B	AAJ140111
OU_04	LH30208	12-Oct-04	OU4-MW-03B	REG	1,1,1-Trichloroethane	0.8 J	ug/L	1	1	VOLATILES	SW8260B	AAJ140111
OU_04	LH30208	12-Oct-04	OU4-MW-03B	REG	1,1-Dichloroethane	0.24 J	ug/L	1	1	VOLATILES	SW8260B	AAJ140111
OU_04	LH30208	12-Oct-04	OU4-MW-03B	REG	Trichloroethene	4.4	ug/L	1	2	VOLATILES	SW8260B	AAJ140111
OU_04	LH30209	19-Oct-04	OU4-MW-03C	REG	Chlorobenzene	1.3	ug/L	1	1	VOLATILES	SW8260B	AAJ220155
OU_04	LH30209	19-Oct-04	OU4-MW-03C	REG	Tetrachloroethene	0.2 J	ug/L	1	1	VOLATILES	SW8260B	AAJ220155
OU_04	LH30209	19-Oct-04	OU4-MW-03C	REG	dis-1,2-Dichloroethene	0.77	ug/L	1	0.5	VOLATILES	SW8260B	AAJ220155
OU_04	LH30209	19-Oct-04	OU4-MW-03C	REG	Acetone	0.92 J	ug/L	1	10	VOLATILES	SW8260B	AAJ220155
OU_04	LH30209	19-Oct-04	OU4-MW-03C	REG	1,1,1-Trichloroethane	0.69 J	ug/L	1	1	VOLATILES	SW8260B	AAJ220155
OU_04	LH30209	19-Oct-04	OU4-MW-03C	REG	1,1-Dichloroethane	0.37 J	ug/L	1	1	VOLATILES	SW8260B	AAJ220155
OU_04	LH30209	19-Oct-04	OU4-MW-03C	REG	Trichloroethene	4.2	ug/L	1	2	VOLATILES	SW8260B	AAJ220155
OU_04	LH30211	8-Oct-04	OU4-MW-12B	REG	Tetrachloroethene	11	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
OU_04	LH30211	8-Oct-04	OU4-MW-12B	REG	dis-1,2-Dichloroethene	0.6	ug/L	1	0.5	VOLATILES	SW8260B	AAJ090223
OU_04	LH30211	8-Oct-04	OU4-MW-12B	REG	1,1,1-Trichloroethane	0.73 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
OU_04	LH30211	8-Oct-04	OU4-MW-12B	REG	Trichloroethene	4.5	ug/L	1	2	VOLATILES	SW8260B	AAJ090223
OU_05	LH30174	12-Oct-04	CW04-060	REG	dis-1,2-Dichloroethene	0.57	ug/L	1	0.5	VOLATILES	SW8260B	AAJ140111

**Table J1**  
**WPAFB LTM Basewide VOC Analytical Data (Detects Only) - October 2004**  
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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_05	LH30175	14-Oct-04	CW05-055	FD	Chlorobenzene	0.27 J	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30175	14-Oct-04	CW05-055	FD	cis-1,2-Dichloroethene	3.4	ug/L	1	0.5	VOLATILES	SW8260B	A4J160188
OU_05	LH30175	14-Oct-04	CW05-055	FD	2-Butanone	2.9 J	ug/L	1	10	VOLATILES	SW8260B	A4J160188
OU_05	LH30175	14-Oct-04	CW05-055	FD	Trichloroethene	0.98 J	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_05	LH30176	14-Oct-04	CW05-055	REG	Chlorobenzene	0.27 J	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30176	14-Oct-04	CW05-055	REG	cis-1,2-Dichloroethene	3.5	ug/L	1	0.5	VOLATILES	SW8260B	A4J160188
OU_05	LH30176	14-Oct-04	CW05-055	REG	Trichloroethene	1 J	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_05	LH30177	12-Oct-04	CW05-085	REG	cis-1,2-Dichloroethene	4.3 D	ug/L	1.43	0.72	VOLATILES	SW8260B	A4J140111
OU_05	LH30177	12-Oct-04	CW05-085	REG	Vinyl chloride	0.46 J D	ug/L	1.43	1.4	VOLATILES	SW8260B	A4J140111
OU_05	LH30177	12-Oct-04	CW05-085	REG	Trichloroethene	4.3 D	ug/L	1.43	2.9	VOLATILES	SW8260B	A4J140111
OU_05	LH30178	21-Oct-04	CW07-055	REG	Acetone	1.3 J	ug/L	1	10	VOLATILES	SW8260B	A4J220155
OU_05	LH30178	21-Oct-04	CW07-055	REG	Chloromethane	0.29 J	ug/L	1	2	VOLATILES	SW8260B	A4J220155
OU_05	LH30178	21-Oct-04	CW07-055	REG	2-Butanone	1.4 J	ug/L	1	10	VOLATILES	SW8260B	A4J220155
OU_05	LH30179	14-Oct-04	CW10-055	REG	cis-1,2-Dichloroethene	3.2	ug/L	1	0.5	VOLATILES	SW8260B	A4J160188
OU_05	LH30179	14-Oct-04	CW10-055	REG	Acetone	1.5 J	ug/L	1	10	VOLATILES	SW8260B	A4J160188
OU_05	LH30179	14-Oct-04	CW10-055	REG	2-Butanone	0.44 J	ug/L	1	10	VOLATILES	SW8260B	A4J160188
OU_05	LH30179	14-Oct-04	CW10-055	REG	Trichloroethene	4.1	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_05	LH30184	14-Oct-04	HD-11	REG	cis-1,2-Dichloroethene	20 D	ug/L	1.43	0.72	VOLATILES	SW8260B	A4J160188
OU_05	LH30184	14-Oct-04	HD-11	REG	trans-1,2-Dichloroethene	1.1 D	ug/L	1.43	0.72	VOLATILES	SW8260B	A4J160188
OU_05	LH30184	14-Oct-04	HD-11	REG	Chloromethane	0.2 J D	ug/L	1.43	2.9	VOLATILES	SW8260B	A4J160188
OU_05	LH30184	14-Oct-04	HD-11	REG	Vinyl chloride	0.43 J D	ug/L	1.43	1.4	VOLATILES	SW8260B	A4J160188
OU_05	LH30184	14-Oct-04	HD-11	REG	Trichloroethene	8.5 D	ug/L	1.43	2.9	VOLATILES	SW8260B	A4J160188
OU_05	LH30185	14-Oct-04	HD-12M	REG	Chloromethane	0.3 J	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_05	LH30185	14-Oct-04	HD-12M	REG	Trichloroethene	0.5 J	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_05	LH30186	14-Oct-04	HD-12S	REG	Tetrachloroethene	2.7	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30186	14-Oct-04	HD-12S	REG	Acetone	1.3 J	ug/L	1	10	VOLATILES	SW8260B	A4J160188
OU_05	LH30186	14-Oct-04	HD-12S	REG	Bromomethane	0.4 J B	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_05	LH30186	14-Oct-04	HD-12S	REG	Chloromethane	0.38 J	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_05	LH30187	14-Oct-04	HD-13D	REG	1,2-Dichloroethene	1.2	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30187	14-Oct-04	HD-13D	REG	cis-1,2-Dichloroethene	16	ug/L	1	0.5	VOLATILES	SW8260B	A4J160188
OU_05	LH30187	14-Oct-04	HD-13D	REG	trans-1,2-Dichloroethene	0.68	ug/L	1	0.5	VOLATILES	SW8260B	A4J160188
OU_05	LH30187	14-Oct-04	HD-13D	REG	Acetone	0.88 J	ug/L	1	10	VOLATILES	SW8260B	A4J160188
OU_05	LH30187	14-Oct-04	HD-13D	REG	Chloromethane	0.3 J	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_05	LH30187	14-Oct-04	HD-13D	REG	Vinyl chloride	0.37 J	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30187	14-Oct-04	HD-13D	REG	2-Butanone	0.56 J	ug/L	1	10	VOLATILES	SW8260B	A4J160188
OU_05	LH30188	14-Oct-04	HD-13S	AB	Ethylbenzene	0.23 J	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30188	14-Oct-04	HD-13S	AB	Toluene	1.4	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30188	14-Oct-04	HD-13S	AB	Total Xylenes	1	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30188	14-Oct-04	HD-13S	AB	Acetone	3 J	ug/L	1	10	VOLATILES	SW8260B	A4J160188
OU_05	LH30188	14-Oct-04	HD-13S	AB	Benzene	0.38 J	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30188	14-Oct-04	HD-13S	AB	Chloromethane	0.29 J	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_05	LH30188	14-Oct-04	HD-13S	AB	2-Butanone	0.78 J	ug/L	1	10	VOLATILES	SW8260B	A4J160188
OU_05	LH30189	14-Oct-04	HD-13S	REG	Chlorobenzene	13	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30189	14-Oct-04	HD-13S	REG	cis-1,2-Dichloroethene	6.8	ug/L	1	0.5	VOLATILES	SW8260B	A4J160188
OU_05	LH30189	14-Oct-04	HD-13S	REG	Benzene	0.49 J	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30189	14-Oct-04	HD-13S	REG	Chloromethane	0.14 J	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_05	LH30189	14-Oct-04	HD-13S	REG	Vinyl chloride	1	ug/L	1	1	VOLATILES	SW8260B	A4J160188

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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_05	LH30190	14-Oct-04	MW131M	REG	cis-1,2-Dichloroethene	2.2	ug/L	1	0.5	VOLATILES	SW8260B	A4J160188
OU_05	LH30190	14-Oct-04	MW131M	REG	Vinyl chloride	11	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30191	14-Oct-04	MW131S	REG	Tetrachloroethene	0.49 J	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30191	14-Oct-04	MW131S	REG	cis-1,2-Dichloroethene	0.89	ug/L	1	0.5	VOLATILES	SW8260B	A4J160188
OU_05	LH30191	14-Oct-04	MW131S	REG	Trichloroethene	0.28 J	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_05	LH30192	14-Oct-04	MW132S	REG	Tetrachloroethene	2	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_05	LH30192	14-Oct-04	MW132S	REG	cis-1,2-Dichloroethene	5.5	ug/L	1	0.5	VOLATILES	SW8260B	A4J160188
OU_05	LH30192	14-Oct-04	MW132S	REG	Chloromethane	0.17 J	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_05	LH30192	14-Oct-04	MW132S	REG	2-Butanone	0.57 J	ug/L	1	10	VOLATILES	SW8260B	A4J160188
OU_05	LH30192	14-Oct-04	MW132S	REG	Trichloroethene	25	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_08	LH30173	12-Oct-04	CW03-77	REG	Tetrachloroethene	0.71 J	ug/L	1	1	VOLATILES	SW8260B	A4J140111
OU_08	LH30173	12-Oct-04	CW03-77	REG	Trichloroethene	0.98 J	ug/L	1	2	VOLATILES	SW8260B	A4J140111
OU_10	LH30165	19-Oct-04	23-578-M	REG	Tetrachloroethene	5.1	ug/L	1	1	VOLATILES	SW8260B	A4J220155
OU_10	LH30165	19-Oct-04	23-578-M	REG	Acetone	0.83 J	ug/L	1	10	VOLATILES	SW8260B	A4J220155
OU_10	LH30165	19-Oct-04	23-578-M	REG	Trichloroethene	3.5	ug/L	1	2	VOLATILES	SW8260B	A4J220155
OU_10	LH30172	19-Oct-04	CHP4-MW01	REG	Tetrachloroethene	1.3	ug/L	1	1	VOLATILES	SW8260B	A4J220155
OU_10	LH30172	19-Oct-04	CHP4-MW01	REG	Acetone	1.1 J	ug/L	1	10	VOLATILES	SW8260B	A4J220155
OU_10	LH30172	19-Oct-04	CHP4-MW01	REG	Chloroform	0.43 J	ug/L	1	1	VOLATILES	SW8260B	A4J220155
OU_10	LH30181	19-Oct-04	GR-330	REG	Tetrachloroethene	63 D	ug/L	2	2	VOLATILES	SW8260B	A4J220155
OU_10	LH30182	20-Oct-04	GR-333	REG	Tetrachloroethene	0.76 J	ug/L	1	1	VOLATILES	SW8260B	A4J220155
OU_10	LH30182	20-Oct-04	GR-333	REG	Acetone	1.3 J	ug/L	1	10	VOLATILES	SW8260B	A4J220155
OU_10	LH30182	20-Oct-04	GR-333	REG	Chloroform	0.86 J	ug/L	1	1	VOLATILES	SW8260B	A4J220155
OU_10	LH30182	20-Oct-04	GR-333	REG	1,1,1-Trichloroethane	0.21 J	ug/L	1	1	VOLATILES	SW8260B	A4J220155
OU_10	LH30182	20-Oct-04	GR-333	REG	Chloromethane	0.31 J	ug/L	1	2	VOLATILES	SW8260B	A4J220155
OU_10	LH30182	20-Oct-04	GR-333	REG	Trichloroethene	1.1 J	ug/L	1	2	VOLATILES	SW8260B	A4J220155
OU_10	LH30183	20-Oct-04	GR-334	REG	Acetone	1.2 J	ug/L	1	10	VOLATILES	SW8260B	A4J220155
OU_10	LH30183	20-Oct-04	GR-334	REG	Chloromethane	0.22 J	ug/L	1	2	VOLATILES	SW8260B	A4J220155
OU_10	LH30196	8-Oct-04	NEA-MW37-1D	REG	Ether, tert-butyl methyl	0.58 J	ug/L	1	5	VOLATILES	SW8260B	A4J090223
OU_10	LH30196	8-Oct-04	NEA-MW37-1D	REG	Acetone	0.83 J	ug/L	1	10	VOLATILES	SW8260B	A4J090223
OU_10	LH30196	14-Oct-04	OU10-MW-03S	REG	Tetrachloroethene	5.2	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_10	LH30196	14-Oct-04	OU10-MW-03S	REG	Chloroform	0.16 J	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_10	LH30197	14-Oct-04	OU10-MW-06D	REG	Tetrachloroethene	0.45 J	ug/L	1	1	VOLATILES	SW8260B	A4J160188
OU_10	LH30198	14-Oct-04	OU10-MW-06S	REG	Trichloroethene	11	ug/L	1	2	VOLATILES	SW8260B	A4J160188
OU_10	LH30199	12-Oct-04	OU10-MW-11D	REG	Tetrachloroethene	2.3	ug/L	1	1	VOLATILES	SW8260B	A4J140111
OU_10	LH30199	12-Oct-04	OU10-MW-11D	REG	Chloroform	0.25 J	ug/L	1	1	VOLATILES	SW8260B	A4J140111
OU_10	LH30199	12-Oct-04	OU10-MW-11D	REG	Trichloroethene	9.8	ug/L	1	2	VOLATILES	SW8260B	A4J140111
OU_10	LH30200	12-Oct-04	OU10-MW-11S	REG	Tetrachloroethene	13	ug/L	1	1	VOLATILES	SW8260B	A4J140111
OU_10	LH30200	12-Oct-04	OU10-MW-11S	REG	Chloroform	0.29 J	ug/L	1	1	VOLATILES	SW8260B	A4J140111
OU_10	LH30201	20-Oct-04	OU10-MW-19D	REG	Tetrachloroethene	0.27 J	ug/L	1	1	VOLATILES	SW8260B	A4J220155
OU_10	LH30201	20-Oct-04	OU10-MW-19D	REG	Carbon tetrachloride	0.38 J	ug/L	1	1	VOLATILES	SW8260B	A4J220155
OU_10	LH30201	20-Oct-04	OU10-MW-19D	REG	Acetone	1.9 J	ug/L	1	10	VOLATILES	SW8260B	A4J220155
OU_10	LH30201	20-Oct-04	OU10-MW-19D	REG	Chloroform	1	ug/L	1	1	VOLATILES	SW8260B	A4J220155
OU_10	LH30201	20-Oct-04	OU10-MW-19D	REG	Trichloroethene	3.2	ug/L	1	2	VOLATILES	SW8260B	A4J220155
OU_10	LH30202	8-Oct-04	OU10-MW-21S	REG	Carbon tetrachloride	1.3	ug/L	1	1	VOLATILES	SW8260B	A4J090223
OU_10	LH30202	8-Oct-04	OU10-MW-21S	REG	Acetone	0.8 J	ug/L	1	10	VOLATILES	SW8260B	A4J090223
OU_10	LH30202	8-Oct-04	OU10-MW-21S	REG	Chloroform	0.3 J	ug/L	1	1	VOLATILES	SW8260B	A4J090223
OU_10	LH30202	8-Oct-04	OU10-MW-21S	REG	Trichloroethene	5.4	ug/L	1	2	VOLATILES	SW8260B	A4J090223

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GROUP NAME	SAMPLE NO	SAMPLE DATE	LOCATION CODE	SAMPLE PURPOSE	PARAMETER	RESULT QUALIFIER	UNITS	DILUTION FACTOR	DETECT LIMIT	USER TEST GROUP	LAB METHOD	SAMPLE DELIVERY GROUP
OU_10	LH30203	14-Oct-04	OU10-MW-25S	FD	Tetrachloroethene	6.1	ug/L	1	1	VOLATILES	SW8260B	AAJ160188
OU_10	LH30203	14-Oct-04	OU10-MW-25S	FD	Chloroform	0.16 J	ug/L	1	1	VOLATILES	SW8260B	AAJ160188
OU_10	LH30204	14-Oct-04	OU10-MW-25S	REG	Tetrachloroethene	5.9	ug/L	1	1	VOLATILES	SW8260B	AAJ160188
FIELDQC	LH30212	8-Oct-04	FIELDQC	TB	Toluene	0.73 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
FIELDQC	LH30212	8-Oct-04	FIELDQC	TB	Total Xylenes	0.85 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
FIELDQC	LH30212	8-Oct-04	FIELDQC	TB	Acetone	3.1 J	ug/L	1	10	VOLATILES	SW8260B	AAJ090223
FIELDQC	LH30212	8-Oct-04	FIELDQC	TB	Benzene	0.4 J	ug/L	1	1	VOLATILES	SW8260B	AAJ090223
FIELDQC	LH30212	8-Oct-04	FIELDQC	TB	2-Butanone	1.1 J	ug/L	1	10	VOLATILES	SW8260B	AAJ090223
FIELDQC	LH30213	12-Oct-04	FIELDQC	TB	Toluene	0.67 J	ug/L	1	1	VOLATILES	SW8260B	AAJ140111
FIELDQC	LH30213	12-Oct-04	FIELDQC	TB	Acetone	1.4 J	ug/L	1	10	VOLATILES	SW8260B	AAJ140111
FIELDQC	LH30213	12-Oct-04	FIELDQC	TB	2-Butanone	3.7 J	ug/L	1	10	VOLATILES	SW8260B	AAJ140111
FIELDQC	LH30214	14-Oct-04	FIELDQC	TB	Toluene	0.73 J	ug/L	1	1	VOLATILES	SW8260B	AAJ160188
FIELDQC	LH30214	14-Oct-04	FIELDQC	TB	Acetone	1.9 J	ug/L	1	10	VOLATILES	SW8260B	AAJ160188
FIELDQC	LH30214	14-Oct-04	FIELDQC	TB	2-Butanone	5.8 J	ug/L	1	10	VOLATILES	SW8260B	AAJ160188
FIELDQC	LH30215	15-Oct-04	FIELDQC	TB	Toluene	0.71 J	ug/L	1	1	VOLATILES	SW8260B	AAJ160183
FIELDQC	LH30215	15-Oct-04	FIELDQC	TB	Total Xylenes	0.89 J	ug/L	1	1	VOLATILES	SW8260B	AAJ160183
FIELDQC	LH30215	15-Oct-04	FIELDQC	TB	Acetone	3.1 J	ug/L	1	10	VOLATILES	SW8260B	AAJ160183
FIELDQC	LH30215	15-Oct-04	FIELDQC	TB	2-Butanone	1.1 J	ug/L	1	10	VOLATILES	SW8260B	AAJ160183
FIELDQC	LH30216	19-Oct-04	FIELDQC	TB	Toluene	0.83 J	ug/L	1	1	VOLATILES	SW8260B	AAJ220155
FIELDQC	LH30216	19-Oct-04	FIELDQC	TB	Acetone	5.4 J	ug/L	1	10	VOLATILES	SW8260B	AAJ220155
FIELDQC	LH30216	19-Oct-04	FIELDQC	TB	Benzene	0.31 J	ug/L	1	1	VOLATILES	SW8260B	AAJ220155
FIELDQC	LH30216	19-Oct-04	FIELDQC	TB	2-Butanone	63	ug/L	1	10	VOLATILES	SW8260B	AAJ220155
FIELDQC	LH30217	21-Oct-04	FIELDQC	TB	Toluene	0.71 J	ug/L	1	1	VOLATILES	SW8260B	AAJ220155
FIELDQC	LH30217	21-Oct-04	FIELDQC	TB	Acetone	1.8 J	ug/L	1	10	VOLATILES	SW8260B	AAJ220155
FIELDQC	LH30217	21-Oct-04	FIELDQC	TB	2-Butanone	2.3 J	ug/L	1	10	VOLATILES	SW8260B	AAJ220155

**Notes:**

This table displays only the detected parameters at each sampling location. Normal sampling locations not displayed here were either unable to be sampled or had no parameters detected.

ug/L = micrograms per Liter

FD = Field Duplicate

AB = Ambient Blank

TB = Trip Blank

J = Estimated Result. Result less than reporting limit.

B = Method Blank Detection

D = Diluted result